

## A budget primer

Essential information for a tough budget year.

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## Canada's Healthiest Campus

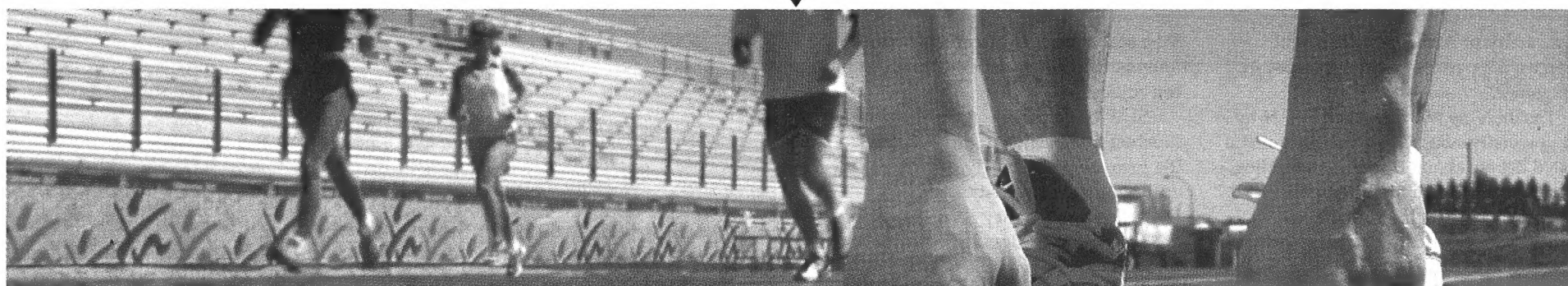
Folio reports, on pages 3, 5, 6 and 7, on health and wellness on campus, the Senate task force on wellness, examines facilities and programs and introduces a new feature, Ultimate R&R.

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## Medical detectives

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UNIVERSITY OF ALBERTA

# folio

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## Blind student lives in the light of learning

### *Nigerian student takes on cultural and physical challenges*

By Bev Betkowski

His world has been dark for as long as he can remember, but Ikechukwu Okoro lives in the light of vibrant friendships and higher education. The Nigerian arts student has been blind since shortly after his birth 30 years ago; his zest for life makes his lack of eyesight almost secondary.

"It's nothing to get in my way," he shrugged cheerfully, beaming through a pair of blue-rimmed sunglasses. "I have to go on, there's no turning back." Indeed, Okoro's vision for his future takes him further every day. Believed to be the International Centre's first blind foreign student, Okoro, who goes by the nickname IK, is enrolled in the University of Alberta Faculty of Arts, working towards a master's degree in French through the Department of Modern Languages and Cultural Studies (MLCS).

Prior to that, he studied French at Abia State University in the Nigerian city of Uturu and taught high school in his homeland. Once he has his master's degree in hand, Okoro has a few options in mind. He'd like to go on to earn a PhD, perhaps lecture at the university level, or work in the diplomatic field.

Higher education is a constant theme in his life, and something he holds dear. In Nigeria, "everyone's dream is to go to university or college, especially the women." He'd been pondering studying in Canada since 1997 and when it came time to choose where, he settled on the U of A. Okoro considered attending a francophone university in Quebec, but wanted to be sure his English skills would get a workout, too.

"He really tried hard to get here," said Jane Wilson, graduate secretary for MLCS. "He went through a lot with getting his study permit," said Wilson, who worked with Okoro to get his application approved. "Where he was living there was no immigration centre and he had to have someone drive him back and forth, he was just so determined."

Stepping off a plane Nov. 30 into a frigid Canadian winter was the first of a



Nigerian student IK Okoro enjoys quality time with pal Angela Anderson, a student advisor for U of A International.

few cultural shocks for Okoro, who took it in with sturdy good humour. "The weather, in a word, is freezing," he chuckled during a recent interview. "Each time I come out, I make sure I don't miss the gloves, the toque, the neck-warmer."

There were other things to take in, too. "It would be better for you to put it in subtitles," he joked, about listing all the cultural differences he is eagerly absorbing. Okoro uses the standard collapsible white cane that accompanies visually impaired North Americans, but in his home village of 5,000 people (and in the surrounding town of 50,000 to 60,000 souls), he never needed one.

"Canes are not popular in Nigeria. People are always there to be around you. For Canadians, it's a matter of independence. In Nigeria, they believe you are walking alone because no one is helping out."

That said, Okoro understands both sides of the equation, and prefers "a mixture of both." In Nigeria, "you don't feel lonely. People are there to come, at least to talk to you. But, in Canada, even if there is nobody, it makes you a bit less dependent."

A little wistfully, he notes that Canadians are perhaps a bit too reserved. "You guys follow the clock. The clock is the government," he laughed. In Nigeria, he added, life is less rushed and more informal, with more emphasis on human connection and leisurely visits.

But he is fond of his Canadian hosts and friends on campus. "My impression of the campus and Canada is, the weather is cold, but the people are warm."

His classmates "have quite taken to him, they'll walk him down the hall to his class," said Wilson.

Okoro, who lives in residence at

"Canes are not popular in Nigeria. People are always there to be around you. For Canadians, it's a matter of independence. In Nigeria, they believe you are walking alone because no one is helping out."

— Ikechukwu Okoro

Pembina Hall, uses computer disks to aid in his studies, learning by listening. He's been getting up to speed on all the modern gadgetry of being a student through the U of A's Specialized Support and Disability Services. The technology is an improvement over the cassettes he used in Nigeria, which crackled and wore out. "In Canada, the level of technology is very interesting – being able to use computers with diskettes." Bank machines have also caught his attention. "I go to the bank, put my headset in the cash machine and take out money – it's very interesting."

All international students face "major challenges" in leaving their home countries to study abroad, without the extra worries of a disability, said Angela Anderson, a student advisor at the International Centre. Okoro faced not only his first airplane trip, but also bitterly cold weather and the adjustment of settling in the midst of the academic year, she noted.

"Rather than fear, IK faced these challenges with excitement and anticipation. He meets all challenges with a positive attitude and trusts that everything will work out. He is an inspiration to international students who face similar challenges, but who have the advantage of being sighted."

Okoro's enthusiasm and determination to round out his education may also inspire other students with disabilities to study abroad, Anderson added.

"There is nothing bad to go outside of your home," said Okoro. "If I hadn't come here I wouldn't have met Chinese, Russians, Polish, Ukrainians. Why not think of it?" ■







# The healthiest campus in Canada?

*When it comes to wellness, the U of A aims high*

By Richard Cairney

Dr. Louis Francescutti doesn't hold back his opinion of Canada's health care system, he just offers it up: "It's the greatest waste of money in the country."

The system, he states simply, is built to accommodate sick people, which is more expensive and less effective than dealing with healthy people. Preventing illnesses, he says, is the best medicine.

As an emergency room physician at the Royal Alexandra Hospital in Edmonton, Francescutti sees a parade of preventable illnesses and injuries. Every day he treats patients who are, for the most part, the authors of their own misfortune.

"I take care of people who primarily don't take care of themselves, people who are not able to breathe because of smoking, or who are having strokes because they are overweight and inactive, whose injuries and illnesses are primarily the result of their own behaviours," said Francescutti, a professor of public health science in the U of A Faculty of Medicine and Dentistry.

Trained in preventative medicine at John's Hopkins, Francescutti is frustrated by the ER's revolving door and the health care system's inability to recognize, let alone solve, the problem. He sounds cynical as he rattles off the names of the federal commissions and provincial reports that have focused on health care, their names long forgotten, the veneer and promise of change in their titles tarnished.

"Everybody tells us that the current health care system is unsustainable, but they fall very short in giving you concrete steps in what needs to be done," he said.

So why, then, would Francescutti head up a U of A Senate Task Force on Wellness? Doesn't that sound like yet another dust collector? He insists the document is different.

Filed to the Board of Governors last spring, the task force report, ambitiously entitled *Becoming the Healthiest University in Canada*, is "the next step in taking the university community beyond rhetoric and into a mindset where we can take control of things that will make us healthy," he said.

"This is the first report of its kind that I have seen for a university, that lays out a blueprint. It isn't an airy-fairy document that says 'we should all be healthier.' It tells us what we need to do."

The report is available online at the U of A Senate website ([www.uofaweb.ualberta.ca/senate/](http://www.uofaweb.ualberta.ca/senate/)).

The most talked-about recommendation in the report suggested a campus-wide ban of tobacco altogether. The idea created a stir, with some calling the scheme visionary and others arguing it was Orwellian. Ultimately, the U of A Board of Governors accepted the report, but expressed reservations about how practical the smoking recommendation might be to implement.

Cigarettes kill about 45,000 people per year in Canada, and Francescutti agrees that banning smoking would be the single-most effective step the university community, and the greater community, could take to improve its health.

"I think it is just a matter of time," he said of the idea. "We may be a little ahead of our time on this one, but the university should very strongly support smoking cessation programs. The irony is that we continue to pretend everything is OK when things are not, and we continue to say wellness is important but never spend any money on it."

The report also backs a handful of ini-



Dr. Louis Francescutti

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tiatives including the U of A On The Move project.

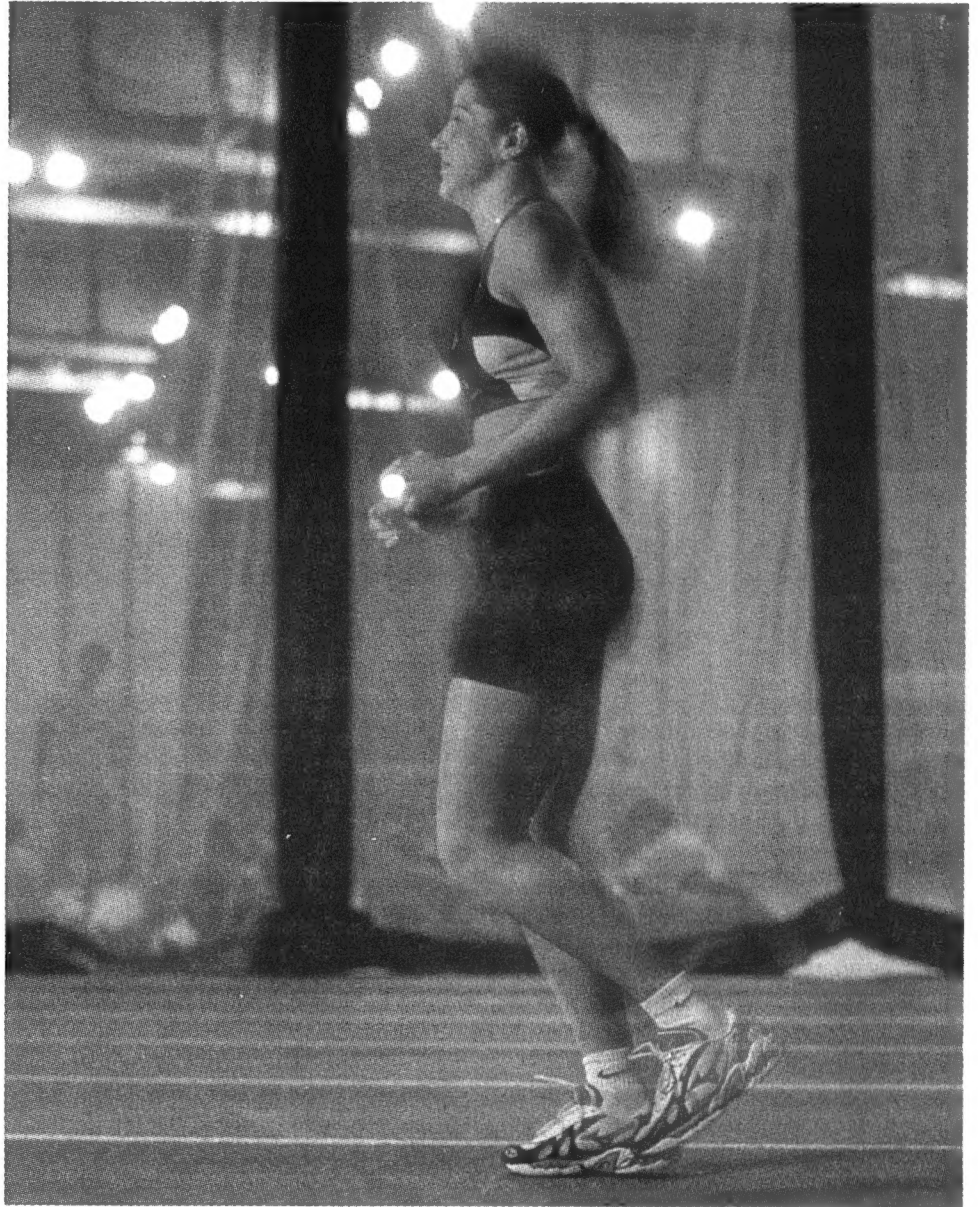
The program was formed out of the U of A Faculty of Agriculture, Forestry and Home Economics' annual Empey Lecture last fall. The lecture was presented by Dr. James Hill, who is credited with developing the successful America On the Move program, and Dr. Diane Finegood, scientific director of the Institute of Nutrition, Metabolism and Diabetes with the Canadian Institutes of Health Research.

It's all part of a campus-wide movement to promote active living, said Dr. Rhonda Bell, who teaches human nutrition in the U of A Department of Agricultural, Food and Nutritional Science. Bell has used pedometers in research that resulted in the First Step Program for people with Type 2 Diabetes.

The campus community can purchase the U of A pedometers for \$25 from the office of Health Promotion and Worklife Services. The devices come with instructions and maps of walking routes in the campus vicinity. The U of A On the Move website ([www.onthemove.ualberta.ca/](http://www.onthemove.ualberta.ca/)) also includes maps of indoor walking routes on campus. The website offers resources to find target heart rate zones and to determine body composition. It also allows On The Move participants to register and maintain an online log of their walking activity.

Dr. Wendy Rodgers, a professor and associate dean of research with the U of A Faculty of Physical Education and Recreation, says pedometers have been shown to help motivate people to become more active. She also sees the value of seeking informed consent from participants to access a database of how effective the program is. She's confident that On The Move could improve workplace productivity as well.

A special Week of Wellness being planned by the U of A Students' Union, the U of A Faculty of Physical Education and Recreation, and other groups on campus, also earned the task force's support. The first annual University of Alberta Wellness Week – Spring into Action, takes place March 14 - 20 at locations throughout campus. Events during the week include a skating party, comedians performing on



The U of A Senate Task Force on Wellness wants the U of A to become Canada's healthiest university.

the SUB stage, a wellness fair, the U of A's largest fitness class ever, cooking demonstrations, and an ultimate Frisbee marathon in Quad to raise money for charity.

Dr. Mike Mahon, dean of the Faculty of Physical Education and Recreation, says the idea fits with the faculty's goals to promote wellness on campus, and the task force recommendations.

"We're hoping the Wellness Fair will highlight everything from physical education and nutrition to mental wellness," he said.

Francescutti fully supports the notion that wellness includes mental and emotional well-being, and the task force, he says, hopes to reduce stress in the workplace, too, which task force committee members heard a lot about while researching their report.

"Some of what was related to us was about how we handle change at the university. We are poor at managing change. People can adapt to change if they are invited to be a part of the process. And one other thing is that a lot of managers on campus don't have the first clue how to manage. We need to have more training for faculty chairs and deans," he said. "All you have to do is teach people to show respect and dignity to their staff, allow them to grow as individuals, and give them pats on the back when they deserve them."

Other task force recommendations include making healthy snack and meal options more readily available, reviewing on-campus leases to attract businesses that offer healthier food choices, and starting a campus-wide immunization program. The task force would like to see shower and workout facilities in every building, so that

people will find it easier to exercise at or on their way to work.

The task force's recommendations are now being examined by a new committee established to keep the report moving forward. Melanie Goroniuk, the U of A health promotion and worklife services manager, says a January meeting will begin the process of putting the recommendations into action.

"The idea now is to review the recommendations in the report and if they look good, say 'yes' and then try to come up with an implementation plan, and if we say 'no', then ask why not, and what do we do instead, because the issues are still important and we still need a strategy," said Goroniuk.

Goroniuk says the university's health promotion and worklife services will host a virtual office that will act as a sort of online clearing-house for wellness on campus.

"We just want to be able to share all the information with our staff members," she said.

Steps have already been taken on smoking cessation, she noted, with a \$50,000 AADAC grant awarded to the university, the Students' Union, and the U of A Faculty of Physical Education and Recreation to help raise awareness around tobacco reduction. While the program is aimed at 18 - 24 year olds, Goroniuk notes that it may well affect some staff members and their family members.

It's steps like the ones outlined in the task force report, Francescutti says, that could make a big difference at the local level. The U of A, he hopes, will serve as an example for the greater community to follow. ■



## Hook, line and sinker

*Fish farming, and its toxic byproducts, will continue for as long as consumers are hooked*

By Dr. John Volpe

From the perspective of the specialist, it is a mixed blessing when the world turns its attention to your chosen area of endeavour. On one hand you feel somehow legitimized when, if only briefly, the public shares your own intense interest in the issues to which you have devoted your professional life. However, initial excitement quickly gives way to exasperation as rhetoric overshadows the substantive deliberation necessary to move from knowledge to understanding.

As a university professor dealing with issues surrounding seafood ecology, I toil in relative obscurity. The bread and butter of my research is how the relationship between the fishing and aquaculture industries is altering ecological, social and economic checks and balances the world over. The landmark study detailing the greatly increased toxin loads found in farm salmon relative to their wild counterparts has thrust me and my colleagues into the media limelight for a few moments. A seemingly endless parade of cameras and microphones have passed through my lab at the University of Alberta over the last few days in search of expert opinion to put these startling data in perspective.

Farm raised salmon have an order of magnitude higher load of cancer causing POPs (persistent organic pollutants) than wild caught salmon. This is not new. In fact over the last few years three other such studies, albeit much smaller, have come to nearly identical conclusions. Now, a few days after the latest story broke, attention has shifted to consumer reaction and the effect this news will have on the aquaculture industry. What I have not seen in any of the world wide coverage is anyone asking "Why?". By this I don't mean the proximate "why" as in "why are toxin loads higher in farm salmon?" The answer to that question is straightforward and predicted long ago from well established bio-accumulation principles. Nor am I referring to the implied paradigm of the

existence of such a thing as a safe level of carcinogen. No, my frustration is rooted in the deafening absence of what should be a vigorous debate concerning "why industrial aquaculture?" or more specifically, "why industrial salmon aquaculture?".

Consider the following:

- Current production methods adopt maximum economies of scale. Thus feedlot style, open-net pens in the oceans maximize consumption of marine (read: public) resources (i.e. fresh, oxygenated water) while off-loading production wastes (feces, uneaten food) and byproducts (toxins, antibiotic residues, escaped fish, bio-amplified parasites and pathogens). Each net-pen (which number in the hundreds on both coasts) is tantamount to an untreated sewer outfall introducing solid and dissolved wastes directly to the marine environment. This is in every way "industrial waste," disposed of at no charge.
- The unnaturally high densities of animals in the feedlot environment make that environment a breeding ground for disease and parasites. Recently in B.C., farm derived parasites were implicated as the causal agent leading to the largest salmon cohort collapse on record anywhere in the world.
- Three to five kilos of edible fish are used to make one kilo of farm salmon – a net loss of protein badly needed by humanity.
- The contribution of the salmon aquaculture industry to B.C.'s GDP in 2001, as calculated by the Canadian Centre for Policy Alternatives, was \$87 million. Marine based industries directly jeopardized by salmon farming, including commercial and sport fisheries and tourism contributed \$582 million - or 51 per cent of the provincial total.
- Salmon farming in Canada is dominated (>80 per cent of B.C. production) by foreign-owned multinational companies seemingly intent on liquidating Canada's natural marine capital for a very small profit.

Farm salmon over-production (principally from Chile and Norway farms) has driven the price of all salmon to all-time lows. This forces Canadian farms to slash jobs to remain competitive and has brought ruin to coastal fishing communities across the northern hemisphere (which depend on a fair price for their wild catch).

So, even a cursory review of the available information leads to the question of why we are engaging in this activity. This industry is clearly a net-loss proposition, whether viewed from the ecological, social or economic perspective. Consumers have either been uninformed or have opted to turn a blind eye to these facts. Admittedly, the cause and effect relationship between the viability of the world's oceans and your choice of entrée is not as obvious as it could or should be, but that does not make it any less real. The take-home message of the recent research is that we can no longer ignore the natural law that what is bad for the environment is bad for your health. Perhaps if industrial salmon aquaculture really held promise to feed the world's hungry or revitalize our struggling coastal communities or even provide a worry-free epicurean experience, there would be reason to give that industry the benefit of the doubt. Alas, the salmon raised on the farm and destined for your dinner plate arrives with overwhelming environmental and social baggage, in addition to, as we now know, not being as healthful as you've been told.

As with most enviro-social dilemmas, there is hope, and options are available to consumers. The wild Pacific salmon fishery, contrary to popular belief, is not dead. Its major problem has not been lack of wild salmon, which have been plentiful in recent years. Rather, the problem has been to remain viable in the face of rock-bottom prices from the farms. There are five different

wild Pacific salmon species, each unique in taste and texture. Advances in flash freezing at sea has resulted in country-wide availability of a premiere product 12 months of the year. In fact, for anyone who cares about what s/he eats, internet communication and entrepreneurial spirit have combined to make it possible to purchase fish (not just salmon) directly from the fisherman, irregardless of location (some even have on-board webcams). Supporting these fisheries not only does your body a service but helps to support the dozens of coastal B.C. communities hurt by plummeting salmon prices. The major hurdle to the informed consumer is the current lack of labeling in supermarkets and restaurants. The rest of the country falls far behind B.C. where this has been a major issue for years. Without consistent labeling (farmed or wild, country of origin), the consumer cannot make an informed decision. Currently grocers and restaurants are not required to provide this information, a situation that is unfair to consumers and most definitely has to change.

The moral of this story resonates far beyond the farm salmon debate, colouring all of industrial agriculture: There are no shortcuts. So long as market forces alone shape how our food is produced we will be faced with similar reality checks with increasing frequency. Market forces only work when they are accompanied by truthful product labeling and public knowledge of all the costs. Indeed, the current crop of toxic farm salmon stories appearing in the newspapers compete for page space with BSE coverage, transgenic crops and the like – all born of the shortsighted demand for more with less.

In light of the remarkable shortcomings of this industry, it is time consumers and bureaucrats alike recognize that industrial salmon farming is a solution in search of a problem. The story is not just that farm salmon have greatly elevated toxin loads, but "how the hell did we get here?"

(Dr. John Volpe is a professor of Fisheries and Seafood Ecology at the U of A.) ■

## folio letters to the editor

### GSA felt compelled to support tuition increase

Editor, Folio

On Friday, January 16, the University of Alberta Board of Governors voted to increase tuition by 5.3 per cent. As Graduate Students' Association president, I am a member of the board, and I voted in support of the tuition increase. I did so with the support of the Graduate Students' Association (GSA) Council, who voted by an overwhelming majority to support the tuition increase at our December 8 meeting.

In the past, the GSA and the Students' Union have worked together to oppose the tuition increases. This year, both student groups did try to develop a multi-year tuition agreement with the university administration. While the SU did not agree to the conditions, the GSA did. And as the elected representative of the graduate students here at the U of A, I went forward with said agreement, as the GSA Council felt that this was in the best interest of graduate students. This is certainly not the first time, nor will it be the last, that the

GSA and the SU have differed in opinion because of the constituency we represent.

Graduate students admittedly see tuition much differently than undergraduates. We have many programs in place that work to offset the effects of tuition increases, such as a reduced, thesis-only fee, indexed salaries and various awards and scholarships. But we are also in the classrooms and in the labs, interacting with both students and faculty on a daily basis. There are a significant number of graduate students working as teaching assistants on campus, so as graduate students, we are not totally unfamiliar with the undergraduate experience here on campus.

But we do represent a different demographic of students. The average age of a graduate student is over 30. A much higher percentage of graduate students than undergraduates have families to support. We also are here as researchers and academics-in-training, closely interacting with the faculty and the mechanisms that allow

the university to function.

While the undergraduates argue that the cuts that would have resulted from not raising tuition would be acceptable, we at the GSA felt that they are not. We have already felt cuts and have seen how it has impacted our graduate experience here at the U of A. The cuts would reduce the number of support staff and academic resources we need in order to accomplish what we came to the U of A for: our graduate degrees.

We at the GSA also feel that while tuition increases are necessary, given the financial situation of the university, the government needs to start reinvesting in post-secondary education. We felt that by moving the motion, we would be sending a powerful message to the Government of Alberta that the graduate students at the U of A are willing to accept our share of the cost of our graduate degrees, so that when we do come to make the case for reinvestment, we can honestly say that we have done all that we could.

I hope that this clears up some of the questions and misconceptions surrounding the GSA's position concerning this year's tuition debate.

Lee Skallerup  
GSA President

## folio letters to the editor

Folio welcomes letters to the editor. Send your thoughts and opinions via e-mail to richard.cairney@u.alberta.ca, fax at 492-2997, or by mail to Folio, Office of Public Affairs, 6th Floor General Services Building, Edmonton, Alberta T6G 2H1. Letters may be edited for grammar, style, accuracy and length.



# Campus rec: is it all things to all people?

Statistics say it could be . . .

By Richard Cairney

Hugh Hoyles can't believe it when he hears people say they'd like to be more active, but don't know what to do.

Then again, that may be because the choice of fitness activities offered at the University of Alberta's Campus Recreation office is a tad overwhelming. Last year Campus Recreation offered 541 activities classes or courses. And it accepted 28, 313 registrations.

"From that number, we estimate that about 14,000 different people in one way or another participated in campus recreation programs, through clubs or fitness classes or whatever."

There are 22 clubs operating under the Campus Recreation office, offering martial arts (five types), fencing, badminton and more.

"Some people, instead of taking the smorg-like approach, like to do the same thing year-round, so they study martial arts or play badminton or join the ultimate Frisbee club."

Events are supported by 66 instructors, 127 officials and more than 200 students from the U of A Faculty of Physical Education and Recreation.

And at present, Campus Fitness and Lifestyle Programs (CFLP) is offering 105 different fitness classes, ranging from racquet sport instruction to skating and dancing.

Campus Recreation is divided into three areas, including the CFLP, which offers programs to anyone on campus.

"You can go into a class and have a dean, a secretary and a guy from the carpentry shop all together," he said.

"I like to think that we are able to put people in a socializing situation in a recreational setting. We are tickled that we are able to provide a lot of the components for wellness."

— Hugh Hoyles



Campus Recreation director Hugh Hoyles says the opportunities for fitness and lifestyle activities are endless at the U of A.

The Non-Credit Instruction area provides courses on everything from dance and skating to CPR and first aid.

Intramural Recreation gives everyone on campus a chance to participate in whatever activity they want to, but there's always some confusion about who can join intramural teams, said Hoyles.

"People think intramurals are just for students but that's a fallacy," he said. "The mandate of Campus Recreation is to provide recreation and fitness opportunities to the students and the staff of the U of A and

both of those groups are very definitely on our radar."

Part of Campus Recreation's mandate is also to "improve the quality of life on campus," Hoyles said.

"People want to be active but one of the biggest things we offer is building community. We are in the community development business. The socializing that goes on through Campus Recreation is phenomenal. There are coffee klatches that meet after early bird fitness classes every morning. In intramural hockey there are 98

teams, men and women, and every one of those people comes into the dressing room and laces up their skates and talks to their friends...there are eight teams playing here every night from Monday to Thursday and everyone has the same experience, having fun with each other and yukking it up if someone trips over the blueline.

"I like to think that we are able to put people in a socializing situation in a recreational setting. We are tickled that we are able to provide a lot of the components for wellness." ■

## You've been challenged!

Corporate Challenge organizers looking for your participation

By Richard Cairney

When the University of Alberta competes in the Corporate Challenge this spring, organizers hope it will be the beginning of a new level of participation in the event.

The university's Corporate Challenge team has already begun recruiting people interested in taking part in the city-wide games, which run May 28 – June 12 this year.

"Last year we had over 200 participating, not including try-outs, and we want more this year," said Val Hunter, chair of the U of A's Corporate Challenge organizing committee. "One of the suggestions last year was that a lot of people didn't hear about it (the Corporate Challenge) so we are trying to get word out early. We want people to hear this loud and clear and come out and register early."

Campus Recreation director and Corporate Challenge committee member Hugh Hoyles added that campus recreation programs are the perfect way for participants to prepare for the games.

"That is exactly why you'll see in the Corporate Challenge ads in the campus rec guide we are encouraging people to get into volleyball and badminton and what-not," he said. "We have all the activities here and the big thing about our programs is they are for everyone. Some people think 'I can't play in an intramural league or the volleyball leagues, those are for students.' But we have a ton of staff playing in our intramural leagues."

The games, which bring Edmonton's corporate and public sector communities together to compete in events ranging from

basketball and mountain biking to scavenger hunts and throwing paper airplanes, helps build the university's profile within the city.

But of equal importance, said Hunter, a rehabilitation and worklife consultant with the U of A's human resources department, is the fact that it brings university employees together.

"Probably the most important part is getting to know other people, other than through the position they hold at work. You get to know the person, you see them as a person, you see the human side of your colleagues and that is where the wellness comes in," said Hunter.

"Part of wellness is seeing a person for who they are, seeing the personality they bring here every day. To know, for example, that a director is a great athlete or that someone in supply management services is a great dart thrower – those are really great opportunities to get to know someone else on a more personal level."

And building those kinds of relationships, in turn, helps strengthen the university community.

"My personal experience with Corporate Challenge has been the establishment of networking channels," said John Younk, a former committee chair and veteran competitor in the Corporate Challenge. "The university becomes a smaller world when you get to know people from all over campus."

The competition is opened to anyone in the university's employ, from graduate



It seems so long ago . . . the U of A took first place in the Red Division of the Corporate Challenge in 2002. Team organizers are beginning to recruit participants now. Register online at [www.uofaweb.ualberta.ca/challenge/](http://www.uofaweb.ualberta.ca/challenge/).

students to vice-presidents. The presence of vice-presidents Susan Green (External Relations) and Phyllis Clark (Finance and Administration) at Corporate Challenge events in the past couple of years has been heartening, said Hunter.

"It was great to see them on an unofficial level, in a social event. It was great to see their leadership in participating in the Corporate Challenge, which is a part of wellness – it isn't work, it is all our hobbies or other interests that help keep us in balance."

Hunter said that people who aren't athletically inclined still have an opportunity to help the university in the games. Each

year, teams vie for valuable 'spirit points' calculated by the number of supporters they have.

The committee hopes to establish a "spirit team" this year, said Hunter, to help earn points and strengthen the university community.

"For the participants, knowing that you are being seen by another colleague, that you are being acknowledged and recognized for other talents we bring to the university, is a wonderful feeling," she said.

Anyone interested in participating in the U of A Corporate Challenge team can register at the team's website: [www.uofaweb.ualberta.ca/challenge/](http://www.uofaweb.ualberta.ca/challenge/). ■



# Saville Sports Centre adds new tennis and curling facilities

*New South Campus addition is state-of-the-art*

By Richard Cairney

John Barry is all smiles as he walks through the newly opened Saville Sports Centre on the university's South Campus, and it isn't just because the \$7 million, 175,000 square-foot building opened on time and on budget.

Housing curling and tennis facilities, a licensed, catered lounge area with a capacity of 600, a gym and room for a new fitness facility, the Saville Centre has already proven itself. A major curling bonspiel opened the centre Jan. 2, featuring some of the strongest curling teams in the province and drawing huge crowds.

"It was packed here that weekend...it was a wonderful event to open with," said Barry, who is barely able to contain his excitement about the new centre. He's particularly happy for tennis players, who have long sought to have their air-supported "bubble" facility at Michener Park upgraded.

"I've been working on this for 15 years," Barry said of efforts to build the new tennis centre. The Saville Centre will provide eight new indoor tennis courts in late January.

"What we've done with the building is taken all of the U of A curling and tennis programs from older, dilapidated buildings and replaced them with a new, state-of-the-art building."

The university's Balmoral Curling Club, which closed in December, is structurally sound. The Faculty of Physical Education and Recreation is still trying to determine a use for the building. And tenders to purchase the old air-support structure housing the Michener Park tennis facility are coming in now. When the 20-year-old structure is removed, its courts will remain in place.

"It's crazy to walk away from those nine courts," said Barry, assistant dean of the Faculty of Physical Education and Recreation. "And in the long term we'd like to develop another eight outdoor courts here. So once all that is done, the university will have 17 courts during the summer."

A gymnasium at one end of the curling rink has two volleyball courts, two basketball courts and four badminton courts. The wall separating the 9,000-square-foot gym from the 10 curling sheets is glass, allowing organizers to set up bleachers inside the gymnasium and add seating capacity dur-



Faculty of Physical Education and Recreation assistant dean John Barry at the centre of activity in the new Saville Sports Centre on South Campus.

Richard Cairney

"It's crazy to walk away from those nine courts. And in the long term we'd like to develop another eight outdoor courts here. So once all that is done, the university will have 17 courts during the summer."

— John Barry

ing curling events.

The complex, named after its benefactor, Edmonton philanthropist Bruce Saville, boasts the best ice-making equipment available and could easily host major curling bonspiels, he added.

Olympic curling great Kevin Martin is opening a pro shop on the main floor, a move which Barry says is a stamp of approval.

"To have an Olympic silver medallist who feels your facility is the kind of place he'd like to operate his business from lends us a certain profile," he said, adding he hopes Martin will help teach at the centre.

Both tennis and curling are taught as academic programs at the centre, to physical education and recreation students as well as education students. The new tennis courts make it possible to offer more classes to more students, Barry said.

During the summer the curling ice will be removed, allowing the space to be used for ball hockey, roller hockey, or for children's ice hockey camps.

"We get a lot of demand for hockey camps for kids in August, so that's one possibility," he said. "But we might find there's also a lot of demand for curling camps, too. We'll have to wait and see."

The Saville Centre will host summer activity camps for kids.

"There is a wonderful opportunity for staff members to put their kids in these camps," he said. ■

## Benefits plan moves to single-source counselling

*New plan provides wide range of services, costs less*

By Richard Cairney

The University of Alberta has come up with a new way of delivering psychological counselling services with an agreement that provides more services and costs less than previous models.

The university's Employment and Family Assistance Program has awarded Wilson Banwell Human Solutions a contract to provide counselling services to academic and non-academic staff for a two-year period. The move will save the university about \$400,000 per year and provide employees with a broader range of services than was previously available.

"The fee-for-service system was killing us. We were going bankrupt," said Melanie Goroniuk, health promotion and worklife services manager. "What we were offering was primarily counselling services and not a lot in the way of preventive programs or worklife programs. There wasn't a lot being offered to prevent you from getting to the point where you needed counselling."

"What we had was the opportunity to

expand the range of services, remove the cap (which limited services to \$1,000 per year) and look at different ways to access services."

That limit on services, Goroniuk said, was a problem. It's possible, for example, that a person could lose a loved one and go through a divorce in the same year. "We all know that people go through multiple life events."

Under the new contract, employees get more. Besides having round-the-clock access to counselling services, the new system also provides online personal health and wellness testing, interactive e-learning, child and eldercare referral and legal and financial advice.

"If someone is going through a divorce, it might become clear right away that they also need legal and financial advice, so they can end up with three appointments right away. It's one-stop shopping," she said.

"We're offering more services, services that actually help address worklife issues

like child care or legal matters," she added.

Employees can go online to find everything from suitable day care in the area to a home for elderly parents across the country. The new service also provides university employees with two hours of legal or financial consultations.

E-learning programs offered online also allow employees to take personal development courses at their own speed. Courses address issues such as handling stress, embracing change and leadership styles.

A Web-based health and wellness companion allows employees to assess their own personal risk, devise a wellness action plan and browse a library of health and wellness resources.

An advice line for managers and supervisors has been set up to provide help in situations of employee conflict and behaviour. A separate line for employees also provides advice on workplace issues. Aboriginal employees can also access elders, spiritual healers and aboriginal

"What we were offering was primarily counselling services and not a lot in the way of preventive programs or worklife programs. There wasn't a lot being offered to prevent you from getting to the point where you needed counselling."

— Melanie Goroniuk

treatment facilities.

"There are some really good tools available to people now," she said.

Contracts with previous service providers ended in December, and 14 firms responded to a request for proposals. Staff members who had established trusted relationships with counsellors elsewhere can continue to receive service from those counsellors, she said.

For more information on the new programs visit the EFAP website at [www.hrs.ualberta.ca/worklife](http://www.hrs.ualberta.ca/worklife). ■



## From dialysis to athletic glory

*University's auto parts man revels in life with new kidney*

By Geoff McMaster

Dave Smith of the U of A's vehicle services was stunned when he was diagnosed with kidney failure in 1994. He'd always been healthy, and apart from the odd headache, just didn't see it coming. Doctors told him the toxicity levels in his blood were off the charts; his kidneys were only 10 per cent functional.

"My doctor said, 'Any higher and you'd probably be dead.' I didn't believe what he was saying, but my kidneys were all scar tissue," recalls Smith. "You don't even know it's happening – a few tell-tale signs, but nothing you would think is out of the ordinary."

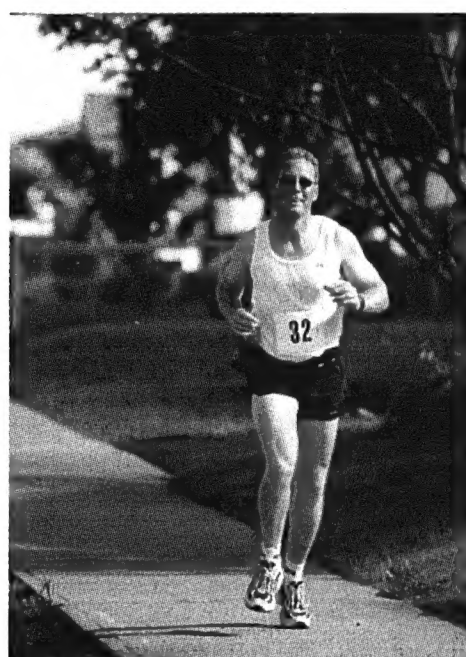
Three years and countless dialysis sessions later, Smith finally received a transplant. His brother Barry, who is 10 years Dave's senior at 50, was a perfect match and without flinching, donated a spare.

Who'd have thought that would mark the beginning of an inspiring athletic career?

"Within a year I started working out and training," says Smith. "Then I



Richard Cairney



Dave Smith has transformed himself into a world-class athlete since having a kidney transplant. Beside competing internationally against other transplant recipients, Smith works with patients awaiting organ transplants, offering advice and hope.

found out about the Canadian Transplant Association and the Transplant Games." He entered his first games, a small event in Camrose, B.C., and did well enough in track and field to feel he was on to something.

In the 2000 national Transplant Games in Sherbrooke, Quebec, he entered six events, including track and tennis. He took home two gold medals, three silvers and a bronze. It was success by anyone's standards, but what impressed Smith most was the sheer joy athletes took in just being alive and healthy.

"The people I meet with transplants, they all have the same zest for life," he said. "They grasp life and do everything they can to make the most of every day they have. They're very aware that they're not in a hospital bed or attached to a dialysis machine."

Three years ago, Smith went on to his first world transplant games in Kobe, Japan, a highly competitive event with 1,500 athletes from 50 countries – determined people with every kind of trans-

plant from hearts to livers to lungs. Smith didn't win any medals this time, but did finish 11th in a field of 70 runners in the 5-km run.

"I tried shot put too but was dwarfed by many a big man," said the five-foot-eleven, 170-pound Smith. "That's when I found out how really good some of these guys are. One guy from Montreal who'd had a heart transplant the year before came back with five gold medals – he blew the competition away."

At his second nationals in St. John's in 2002, however, Smith achieved results he never dreamed possible. Participating in six track events in one day – the 100m, 200m, 800m and five-km runs as well as the long jump and 4X100 m relay, he finished with a staggering five gold medals.

But more important than the thrill of competition is the tight bond shared by transplant recipients, he says. "It's like family – everybody is so happy to see each other."

Smith was so moved by that sense of family that he is now Alberta regional

director of the Canadian Transplant Association and vice-president of the national board.

"Our goal is to increase the awareness of the importance of signing your donor card. A lot of people don't realize how many lives that saves. I mean, you meet kids at the games who are 11 years old with a lung or heart transplant."

Smith also participates in a teaching programs for pre-transplant recipients, reassuring them and letting them know what to expect. "I just tell them my story, and at the end of it they say, 'You don't believe the difference you made in my life by showing me that we can get through this and take on any dreams we want.'"

His brother Barry says Dave was never much of a public personality, even though he's always had "the gift of gab...Once he got into it though, he really found his niche. He likes to get up and talk to people now," said Barry.

All of this he does in his 'spare' time, when not ordering automotive parts to keep university vehicles running smoothly.

Next fall, he's planning a trip to climb one of the highest mountains in the world, Mount Chimborazo in Ecuador. At 20,700 metres, it exceeds Mount Everest as the farthest point from the centre of the Earth.

"I never thought I'd go out of my way to find a mountain," said Smith, who can scarcely believe how his life has changed since his transplant. "We just keep putting things out in front of us, and one thing leads to another. If I hadn't taken that first step in the transplant games...It has kind of snowballed into everything I do now – it's been an amazing past seven years. Who knows what it will lead to next."

"I'm really pleased he's taking good care of (the kidney)," jokes Barry. "I'd hate to see it go to waste. I mean he's been in Japan, France and down east – my kidney's been in a lot more places than I've ever been." ■

(Ultimate R & R is a new feature in Folio. If you know a University of Alberta employee whose off-campus life is intriguing, e-mail [richard.cairney@ualberta.ca](mailto:richard.cairney@ualberta.ca) or [geoff.mcmaster@ualberta.ca](mailto:geoff.mcmaster@ualberta.ca).)



# Doctors discover new form of tropical infection

## Parasite laid eggs in student's brain

By Ryan Smith

A short swim in the Mekong River almost proved fatal for a B.C. university student. The young man didn't notice anything at the time, but during his swim he contracted *Schistosoma mekongi* infection, which almost killed him two years later.

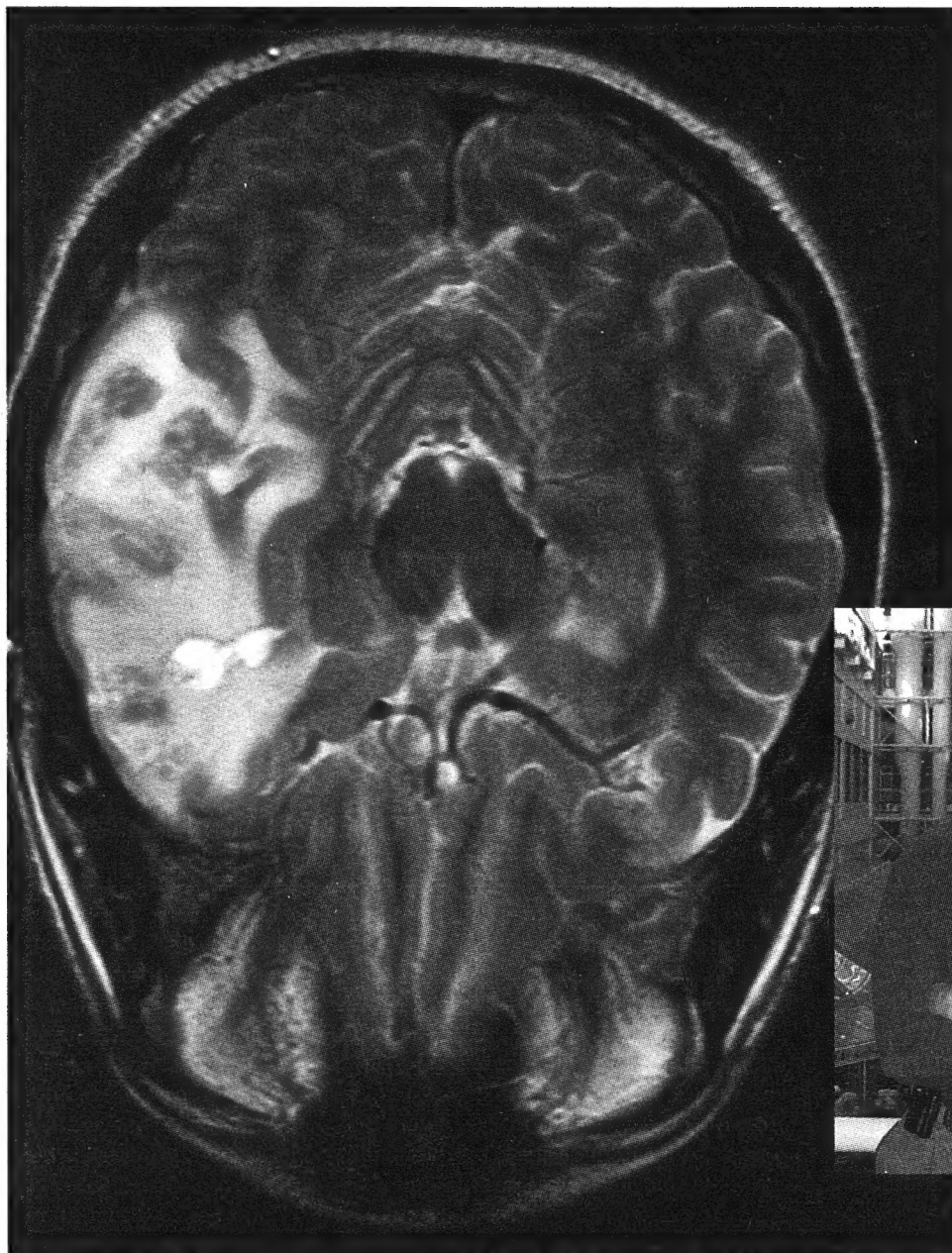
While he swam, two parasitic worms – a male and a female locked in a lifelong embrace – pierced his intact skin. They eventually made a home in his bloodstream and began to lay eggs. Typically, the eggs from these worms settle in the host's bowels or bladder. The student, however, suffered what is the first documented case in which the eggs of this species of parasite settled in the brain. Doctors from the University of Alberta reported the case in the latest edition of the journal *Clinical Infectious Diseases*.

About two years after the student visited Southeast Asia (and spent some time on and in the Mekong River), he was working on a research project in Costa Rica when he became seriously ill. His symptoms included nausea, vomiting, a numb, tingling sensation on the whole right side of his body and loss of some cognitive faculties. When the symptoms persisted for three weeks, he decided to cut his trip short and return to his parents' home near Edmonton.

Doctors at the University of Alberta Hospital initially thought the student had contracted a minor tropical disease in Costa Rica. But after an MRI scan of the student's brain revealed a gray mass, and a needle biopsy proved inconclusive, the doctors thought perhaps he was suffering from encephalitis.

Over a period of a few weeks the man's condition worsened, so the doctors did another MRI and decided to perform brain surgery to remove the mass in the brain, which they thought might be a cancerous tumour – their worst fear at the outset. However, when they saw the mass during surgery they realized it was not a tumour, but worm eggs. It was tremendous news.

"We did a travel history of (the student), and we knew he had travelled in Southeast Asia two years before, but we also knew that he had just come from Costa Rica, so we were thinking, 'Costa Rica, Costa Rica.' But when our parasitolo-



Infectious diseases specialist Dr. Stan Houston (inset), along with colleague Dr. Kinga Kowaleska-Gorochowska discovered a common parasite affected a student in an unusual manner. The white, asymmetrical area of the MRI image above shows eggs laid by a parasite in the patient's brain, and swelling in the region.

gist Dr. Kinga Kowaleska-Gorochowska looked closer at the eggs we discovered he had *Schistosoma mekongi*, and that brought us back to Southeast Asia," said Dr. Stan Houston, a professor of infectious diseases at the U of A and the lead author of the

published paper.

Various forms of *Schistosoma* are quite common in the developing world, affecting about 200 million people worldwide, Houston said, adding that the infection can be fatal but usually is not. The doctors

treated the student with an anti-parasite medication. He recovered almost completely after six months and now, 13 months after the surgery, is "as fit as I used to be, maybe even a bit more," he said.

The student, who studies education at the University of British Columbia, said he knew of the risk of *Schistosoma* before swimming in the Mekong River – he had read about the risk in a *Lonely Planet* travel guide book – but he saw the local inhabitants bathing and drinking the water and figured he would be OK.

"I just thought, 'Whatever, I'll just go for a quick swim.' I know now that I should have been more careful," he said.

Houston is already getting calls from doctors in Laos asking him about the case.

"We don't know if this is the first time

the eggs have ever settled in the brain or if this is simply the first case that has been discovered," Houston said. "Maybe this has happened before but the doctors in Cambodia and Laos couldn't see it because they don't have the panoply of imaging equipment and technology that we have here.

"This case is certainly a reminder to travellers to pay close attention to the advice given by the (Capital Health Authority)

travel clinic, and it's a reminder to doctors to remember that patients who have been to exotic places might have an exotic explanation for their problem," Houston added. "Knowing about this case won't revolutionize our control of these types of infections, but it certainly expands our knowledge of them."

As for the student, he is doing much better. "I certainly appreciate my health more than ever; I take much better care of myself," he said. "I feel great." ■

# Research team buzzing about West Nile findings

## Model could help halt spread of virus

By Phoebe Dey

University of Alberta researchers have developed the first model to predict risk of West Nile virus in North America – a tool that could help prevent the infectious disease from becoming an outbreak.

Dr. Marjorie Wonham and her fellow researchers from the Centre for Mathematical Biology at the U of A created a simple mathematical model using dead bird counts collected in New York in 2000. Their research is published in the current journal issue of the *Royal Society of London Proceedings*. Graduate student Tomas de-Camino Beck and Dr. Mark Lewis, director of the Centre for Mathematical Biology, are co-authors of the paper.

West Nile virus is an emerging infectious disease in North America that spreads primarily through contact between birds and mosquitoes. It can be lethal to birds, horses and humans. One of the U of A group's key findings is that the chance of an outbreak is decreased by removing mosquitoes, but is actually increased by removing birds. The model provides a new analytical method for determining necessary mosquito control levels.

"This virus is endemic and we're probably never going to get rid of it completely unless we say that we're going to kill all the mosquitoes in the world – that's not going to happen," said Wonham. "What

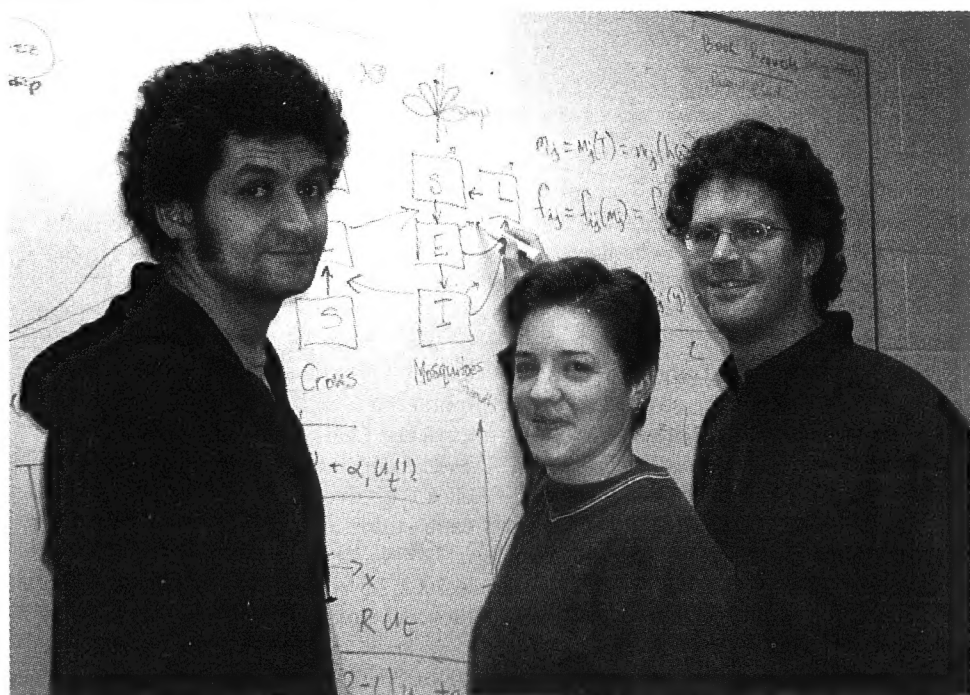
this work does is tell you just what percentage is necessary to keep the virus below an outbreak."

The research group set up parameter values from published scientific papers on mosquito biology, crow biology and West Nile biology. In order for a specific region to use this model, officials could tailor such parameters as mosquito life span, biting rate and crow life span to the data in their area. For example, since Edmonton summers are short and dry, the mosquito life cycle might be quite different than in the longer, more humid summer of New York.

Currently mosquitoes are killed through the application of chemical larvicides to the water, filling in the wetlands to remove the habitat and as a last resort, spraying chemicals to kill the adult species.

"Since applying chemicals and filling in wetlands cost money and cause environmental damage, one would ideally use the minimum amount of control that would still be effective in preventing outbreak," said Wonham. "Our model lets you calculate the threshold mosquito population for West Nile outbreak – you just have to keep them below the threshold level. This means, we would hope, minimal economic cost and environmental damage while still preventing outbreak."

Mathematical models have been used



Tomas de-Camino Beck, Dr. Marjorie Wonham and Dr. Mark Lewis. Wonham and her colleagues developed a mathematical model on the spread of the West Nile virus.

to manage other diseases such as malaria but this is the first to focus on the West Nile virus. Wonham was supported in the project through Killam post-doctoral fellowships and the National Sciences and Engineering

Research Council of Canada (NSERC), while de-Camino Beck was funded as a U of A biology graduate student, and Lewis was supported through grants from NSERC and the Canada Research Chair. ■



## Hold on to your hats: Budget 2004-05

The point hit home at last week's Board of Governors meeting during a marathon tuition debate over administration's proposal for a 5.3 per cent increase. The discussion turned, inevitably, to the bottom line of the University of Alberta's operating budget. Dr. Gurston Dacks, professor of political science and board academic staff representative, asked the size of the shortfall for 2004-05.

"Hold on to your hats," said Phyllis Clark, vice-president, finance and administration. "We're now looking at a revenue gap of \$28 million."

It was disturbing news to many. It wasn't news to the Executive Planning Committee (the five vice-presidents and deputy provost), who had been wrestling with the numbers for two months. It wasn't news to deans or chairs, who had, just days before, received a briefing from Carl Amrhein, provost and vice president (academic).

But where did this number come from? And how does it relate to the balanced budget originally projected in the four-year plan? First, costs, particularly utility costs, have escalated beyond expectations and revenues, such as endowment incomes, have been below target.

"But this number represents a way of looking at the total picture that we haven't presented to the community in the past," says Clark. "In the actual budget we plug in targets on revenue we think we can find, but aren't clear yet on where they will come from. We also plug in reductions on spending that we're implementing." Once this is done to the budget proposal, the overall budget deficit we're asking the Board of Governors and the Minister of Learning to approve will be about \$3.7 million. "It's just that when we express it that way, people assume we have a \$3.7-million problem when in fact, the gap between current spending and expected revenue is \$28.7 million for 2004-05. We have a \$28.7-million problem," she says.

### WHY ISN'T THERE ENOUGH?

The revenue gap is primarily due to costs for essential expenditures such as salaries, benefits and utilities outpacing increases in revenue. In just four years utility costs alone have doubled, from \$16 million in 2000-01 to a budgeted \$33 million in 2004-05.

In context, Amrhein says a one-per-cent increase in operating grant from the province equals \$3 million. A one-per-cent reduction in our spending equals \$3 million. A \$1 increase per gigajoule in the cost of natural gas costs us \$3 million. "This means a two-per-cent increase in government funding can literally go up the smokestack with a \$2 increase in the price of natural gas," says Amrhein.

### HOW WILL WE MANAGE?

"These can only be described as coping strategies," says Clark. First, we will include revenue improvements in the budget of \$6.2 million. The Funding Solutions Task Force will be charged with finding \$2.5 million of this. The source for the rest is not yet identified. "Clearly it's critical to achieve these revenue targets," says Clark. "If we fail, it increases the magnitude of

the problem next year."

The second step is to add an additional three per cent in spending reallocations to the one per cent academic units were already building into their budgets and the 1.5 per cent administrative units had planned. Total budget reallocations will total just over \$13 million.

So why aren't we saying we're instituting budget cuts of \$9.6 million on top

of the \$3 million planned for 2004-05?

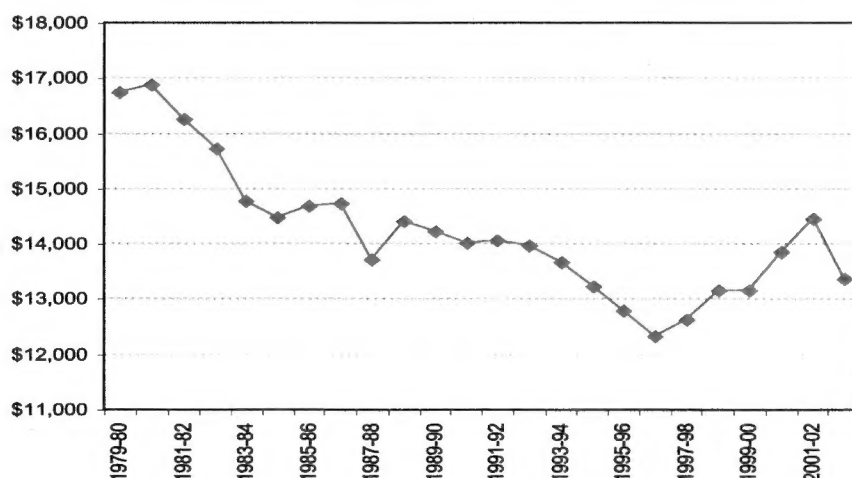
"Because it's not true," says Amrhein.

"Our operating budget is increasing. Government sees they are contributing more money each year. They have not cut our budget. We have more money. Unfortunately our increase in expenses is greater.

"We have difficult decisions to make, and it may mean we can't continue to do

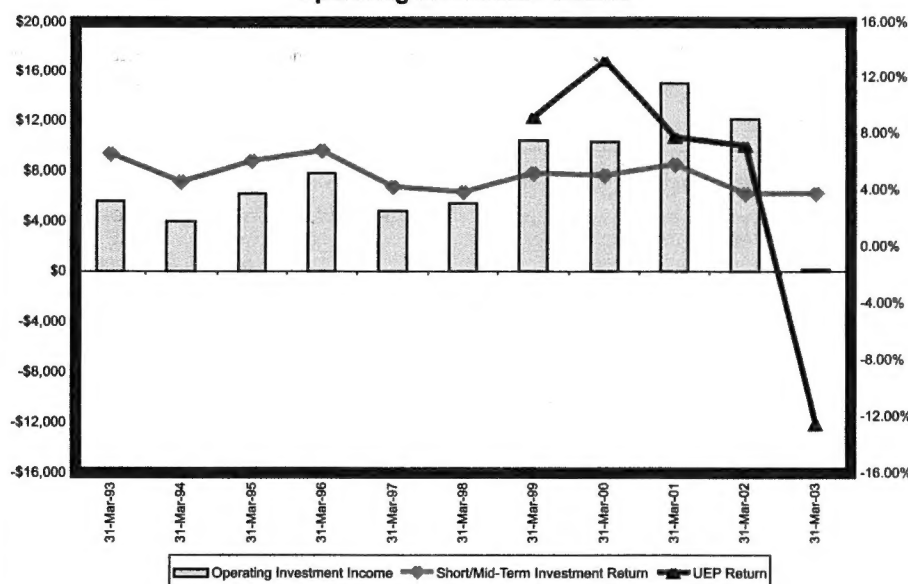
everything we have been doing," says Amrhein. "But it's an exercise in redirecting blood flow to the heart." Every dollar possible needs to be directed toward the faculties for the core teaching and research function," says Amrhein. "That means the dollars we need to keep people – salaries and benefits. Unfortunately, it also means scarce resources must be redirected to pay the energy bill."

Operating revenue from all sources per full-time equivalent student, 1979-80 to 2002-03 (constant dollars)



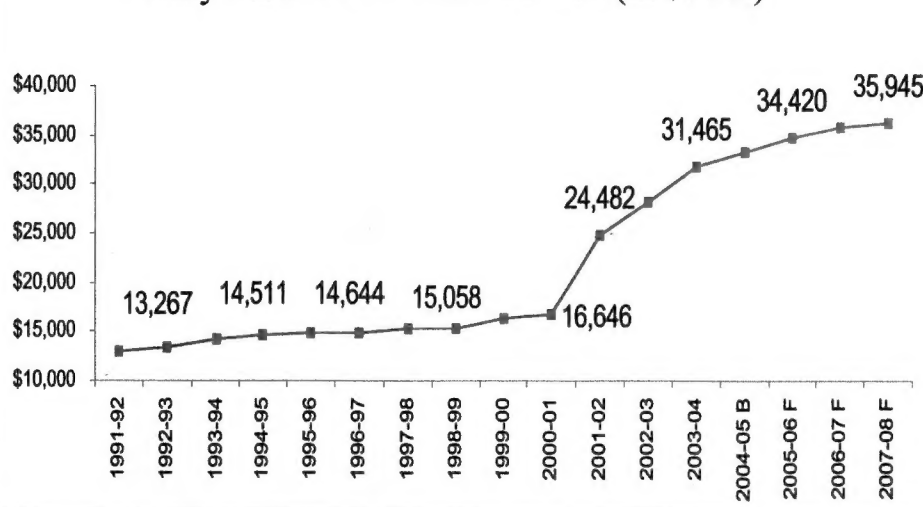
Expressed in constant (inflation adjusted) dollars, the university has seen a decline in revenue per student over most of the past two decades.

Operating Investment Income



The university counts on investment revenue, which declined dramatically over the past three years, as a source of operating funds.

Utility costs 1991-92 to 2007-08 (in \$000s)



Utility costs, primarily due to jumps in the price of natural gas, have doubled in three years.

## Budget by the numbers

### BUDGET FACTS

- The core operating budget represents the only portion of our consolidated budget where dollars are not earmarked by agreement with the person or agency granting the money. (eg. Research grant dollars cannot be shifted to pay for utilities. Donations to the university cannot be used for purposes outside of the donor's intent.)
- Salaries and benefits make up 80 per cent of the core operating budget.
- Salaries, benefits and utilities together make up 89 per cent of the core operating budget.

### BUDGET APPROVAL PROCESS

- Jan. 20, 2004: Provost and vice-presidents approve budget submission.
- Feb. 11, 2004: Budget presented to the Academic Planning Committee for approval.
- Feb. 25, 2004: Budget is presented to the Board Finance and Property Committee for approval.
- March 19, 2004: Budget is presented for Board of Governors' approval.
- March 19, 2004: Budget is presented to the Minister of Learning.

### CRANES ON CAMPUS

How can we be broke when we see so many cranes on campus? Provost Carl Amrhein says he's hearing this question a lot these days. First, they're not all our cranes, says Amrhein. Secondly, buildings aren't constructed with operating dollars.

### Projects with cranes include

- The LRT.
- The Health Research Innovation Facility – funding through provincial grants, research grants, faculty funding and private donations.
- The Markin/CNRL Natural Resources Engineering Facility – funding through private donations, research grants and provincial funding.
- NINT – a collaborative national institute with special funding from the federal and provincial governments along with the University of Alberta.
- East Campus Village Residence – self-financed through residence revenues.

Knowledge... Alberta's greatest resource  
Alberta's greatest return on investment



UNIVERSITY OF  
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## A \$28.7million revenue gap – what does it mean?

*Sustainable long-term solution lies in proving we're the province's best investment*

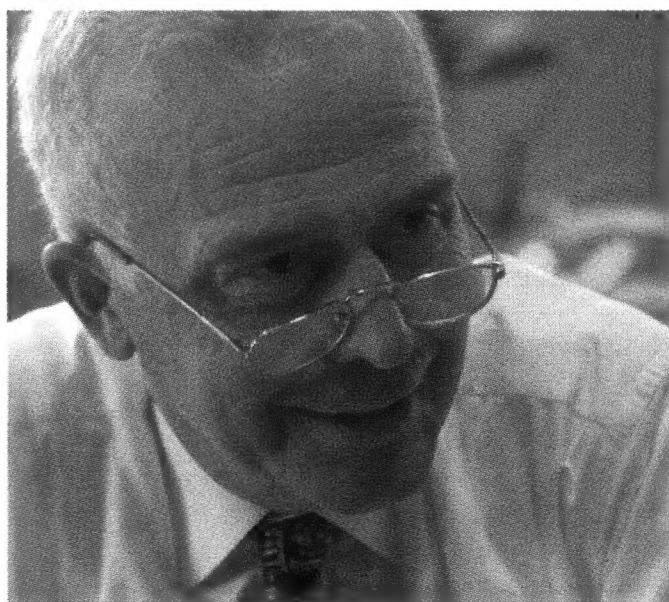
Overall, the \$28.7-million revenue gap means the public, and by extension government, is not seeing universities as a priority investment, says Dr. Rod Fraser, University of Alberta president.

Fraser and Board of Governors Chair Jim Edwards joined the presidents and chairs of Alberta's other three universities in making a presentation to a Standing Policy Committee of the provincial government last September.

"They were impressed by the value the university sector brings to the province," says Fraser. They were also convinced that a substantial investment in universities would bring them an enormous return. "The stumbling block, for them, was that they were not hearing from constituents that university funding is on their radar." And it's not just Alberta. "It's a national problem," says Fraser. "Everyone's on the bandwagon for building a knowledge economy," he says. "But they haven't connected that desire with the key to success – the knowledge 'industry' in the best sense of the word: Canada's teaching and research universities."

Provost Carl Amrhein says no academic will see this as a new problem. "I've faced dire financial challenges in every department and faculty I've ever worked in, even as a grad student," says Amrhein. "And yet universities, especially the University of Alberta, continue to grow in success."

But Amrhein says the tipping point, particularly for Alberta universities, has



Dr. Rod Fraser

been reached. "We can't continue this trajectory of success under increasingly daunting revenue gaps."

The only sustainable solution, says Amrhein, "is to do what we do best – build knowledge and understanding – so every Albertan understands that the University of Alberta matters to them." They also need to understand that their most important resource is at risk without significant reinvestment, he says.

Personal stories make an impact, says Fraser. "I spoke to one MLA whose daughter was attending the University of Alberta and taking the same class he'd taken 20 some years ago. It mattered to him that

he'd studied in a class of 30 while she was in a class of 300."

The public also understands when their son or daughter can't get into university, despite having better grades than mom or dad. According to Fraser, the math is simple. Seventy per cent of new jobs require post-secondary education and a university degree is the fastest growing requirement. "You'd expect vast numbers of high school graduates flocking to universities based on this expectation," he says. Yet Alberta has university spaces for only 1.6 of every 10 high school students graduating. The national average is about 2.4 spaces for every 10 high school graduates with the

"How do we help Albertans understand that we lose the capacity to teach several graduate students for every professor we lose or can't hire, that undergraduate class sizes increase and that there's an enormous multiplier effect on the local economy?"

— Dr. Rod Fraser

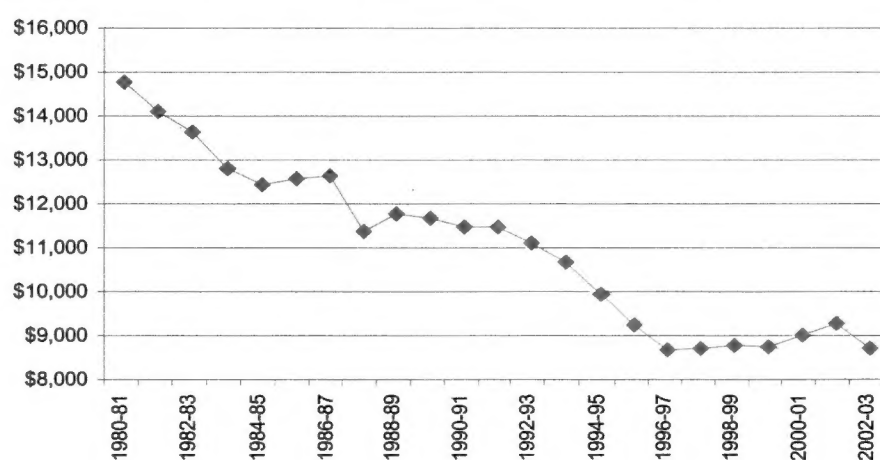
U.S. averaging more than four spaces for every high school graduate.

"On this impact alone, you can see we're confronting a serious risk to Alberta's success in a knowledge economy," says Fraser. Somehow, we need to make sure Albertans understand why their son or daughter can't study for a university degree, he says. "And we need to help business and industry understand why they have to import the workers they need."

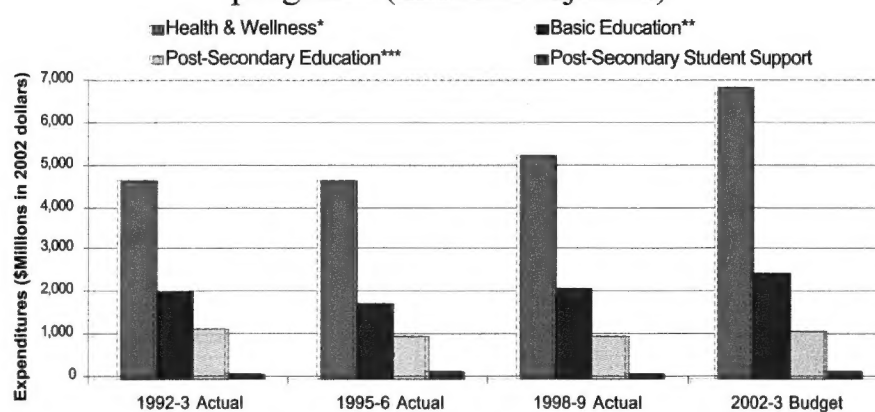
Alberta taxpayers also need to understand that individual University of Alberta professors, on average, attract approximately \$175,000 in annual research funding, roughly one-third of that in the form of federal tax dollars returning to the province. "This is one of the tangible spinoff benefits of a teaching and research university," says Fraser. "How do we help Albertans understand that we lose the capacity to teach several graduate students for every professor we lose or can't hire, that undergraduate class sizes increase and that there's an enormous multiplier effect on the local economy?"

Chronic underfunding means a chronic lack of understanding of the value universities bring, says Fraser. Our Lieutenant Governor and chancellor emeritus Lois Hole used to say that if each of us said something nice about the university to 10 other people, our problems would be over. "You know she's right," says Fraser. "We are a community of people expert in building understanding. Let's get to work."

Operating grant per full-time equivalent student, 1980-81 to 2002-03 (constant dollars)



Expenditures by selected Alberta government programs (inflation adjusted)



\* Health figures plus 7.5% for 1992-93 and 1995-96 (proportion shown in 1998-99 equivalence for the new Ministry of Health and Wellness).  
 \*\* Education figures initially, then basic learning components separated from Alberta Learning totals excluding property taxes (Alberta School Foundation Fund).  
 \*\*\* Adult learning components (excluding student financial support) separated from Advanced Education & Career Development and from Alberta Learning totals.

Source: Alberta Public Accounts, Annual Reports and Business Plans (adjusted for Alberta CPI changes)

## Facts your neighbours need to know

### UNIVERSITY OF ALBERTA IMPACT

#### University of Alberta alumni

- manage more than 30 per cent of Alberta's top companies.
- spend more than \$4 billion after income taxes per year in Alberta.
- return nearly 300 per cent on the province's investment in their education.

#### Research at the University of Alberta

- attracts nearly \$300 million per year in funding, roughly one-third

in the form of federal tax dollars returning to the province.

- generates \$200 million in spending.
- supports more than 11,000 jobs.
- creates thousands of opportunities for graduate education.

#### University of Alberta spinoff companies

- attract more than \$150 million in private investment.
- leverage public sector support by 15 to 1.

- build Alberta's high technology sector.
- hire hundreds of highly skilled workers in the region.
- grow at the rate of four new spinoff companies each year.

### UNIVERSITY OF ALBERTA COMPETITIVE POSITION

- national ranking of Alberta's universities in per student funding: 7 (of 10 provinces).
- national ranking of Alberta's K-12 system in per student funding: 1.

- annual increase in University of Alberta provincial operating grant needed to be competitive with the top rate of provincial university funding in Canada: \$80 million.
- U.S. publicly-funded universities percentage per student funding advantage: 50 per cent.

Knowledge... Alberta's greatest resource  
 Alberta's greatest return on investment



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## Funding solutions success: How much more can we do?

The Funding Solutions Task Force (FSTF) might not be top of mind for most of campus, but the impact of its work has been profound, says Provost Carl Amrhein.

"The university's Funding Solutions Task Force, established to find new revenue sources and costs savings, has saved the university \$17 million," says Amrhein. "That's 20 per cent of the university's non-salary budget."

Amrhein says no Canadian or U.S. university has undertaken a similar, campus-wide examination of spending and revenues. "The question now is how much more can we get from this source. We hope it's another \$2.5 million," he says. That would be close to meeting a one-per-cent increase from the government or equal a one-per-cent spending reduction we don't have to make.

FSTF co-chair Art Quinney says the success of the exercise was broad campus involvement, even if much of it was unseen. "We began with expert panels on



Dr. Carl Amrhein

a number of key areas," says Quinney. "These included representatives from the private sector to ensure we didn't get

trapped into 'this is the way we've always done it' type of thinking." The task force also solicited suggestions from faculty and staff associations and any interested staff members on ways costs could be contained or revenue enhanced.

From there, follow-up research was done on each suggestion, at times requiring the establishment of other working groups. Currently these include a One Card Working Group, chaired by business professor Dr. Adam Finn, the Conference Management Panel, chaired by Sheryl Wolowyk, executive director for the Centre for Executive Management Development and the Microsoft Exchange Consolidation Committee, chaired by Doug Poff, associate director, information technology for libraries and Robin Sawh, LAN supervisor for Resource Planning.

"These groups are looking for efficiencies in the way we currently operate and opportunities we can leverage to bring in more revenue," says Quinney.

Clearly some moves, such as increased parking, were enormously unpopular, says Quinney. But the impact of those additional dollars on our ability to support hiring professors and building library resources is critical. Another area of success has been strategic sourcing, such as our agreement with IBM and Dell for purchasing computers, our arrangement with BTI ResAssit to book travel for Canadian and USA destinations and a negotiated agreement with the airport for reduced parking fees.

"Ultimately, though, these deals achieve savings only to the degree in which faculty and staff purchase through the supplier," says Quinney. "There are always times you can find a one-off deal a few dollars cheaper, but when you do that, we lose the opportunity to leverage our buying power for savings that make a far greater impact on the overall bottom line. As well, the small one-time savings ultimately prove to be a liability due to issues of compatibility."

### Who is FSTF?

The Funding Solutions Task Force is co-chaired by Deputy Provost Art Quinney and Associate Vice-President Nazim Merali. Membership includes Philip Stack, director of resource planning, Dan Charlton, associate director human resources, Martin Coutts, director of financial services, Andy Greenshaw, associate vice-president research, Debbie Quigg, manager of budget planning and Lee Elliott, director of public affairs. FSTF project co-ordinator is Von Whiting.

### FUNDING SOLUTIONS Q & A

**Q:** Where did \$17M in savings and revenue come from?

**A:** Examples of savings and revenue enhancements include:

- Operating and maintenance funding: \$8.4 million.
- Leveraging of lands and physical assets: \$1 million.
- Parking fee increases, although highly unpopular, added an ongoing \$750,000 to the operating budget in 2003-04.
- A process for more timely deposit of cheques received across campus added \$25,000 annually to the bottom line in the form of bank interest.
- Extending the winter break meant

\$100,000 to the bottom line from 2003-04.

- Strategic sourcing of computers with IBM and Dell is realizing \$560,000 in annual cost savings with only central administration units participation.
- Direct deposit of payroll cheques saved \$22,800 in the 2003-04 budget year.

**Q:** What's next for FSTF?

**A:** FSTF wraps up its mandate June 30, 2004. A successor process will be developed to continue to search for innovative ways to reduce costs or to increase revenue. Projects to be concluded include:

- Business Consulting firm Quanteria is engaged to facilitate development of business cases for the U of A Bookstore

and Creative Services looking for opportunities to improve services, reduce expenses or improve revenues. Campus ancillary services are also being reviewed.

- A one-stop purchasing website will be launched to increase purchasing through single-source and preferred suppliers, leveraging the university's ability to negotiate price based on volume.
- An electronic university calendar is being developed to be phased in gradually.

**Q:** What do I do if I have an idea for FSTF?

**A:** Email: [von.whiting@ualberta.ca](mailto:von.whiting@ualberta.ca).

## How will we manage a \$28M revenue gap?

### QUESTIONS AND ANSWERS

**Q:** Will there be budget cuts?

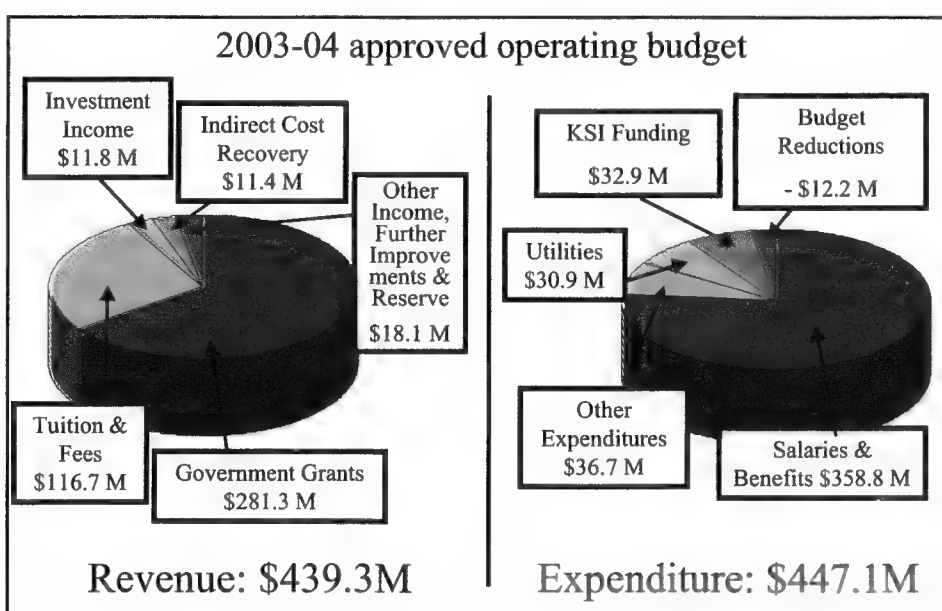
**A:** "Overall, the operating budget will grow," says Phyllis Clark, vice-president (finance and administration). "Our problem is that costs are growing much faster than revenues." The biggest cost pressures are salaries, benefits and utility costs which, when combined, total some 89 per cent of our budget.

"Meeting those expenses will mean reallocating resources from the very small portion of the operating budget that remains," she says. Spending reductions may vary by department and unit – all with the aim of maximizing resources most directly connected to teaching and research.

Each vice president has committed to working with his or her directors and staff to find an additional three-per-cent reallocation in his or her area. The provost has established a working group of deans to achieve spending reallocations that achieve the best balance of priorities.

**Q:** Will there be job cuts?

**A:** It's still too early to say. On the academ-



ic side, "we'll have a much better idea once the provincial budget is announced," says Provost and Vice-President (Academic) Carl Amrhein. In other portfolios, vice-presidents will again be working closely with their directors to balance the budget with reduced amounts to spend outside of salaries and benefits.

"I can't stress enough that the key to protecting our professoriate and support staff is to make the case to Albertans to invest in universities," says Amrhein. "The public's stake in the University of Alberta is as great as ours. We need them to understand that and to tell them in a way that's clear – but not abrasive."

**Q:** Will we cut enrolment?

**A:** Again, much depends how provincial funding rolls out in this government budget. "We currently have 2,350 unfunded graduate and undergraduate students," says Amrhein. "With our current lack of fiscal capacity, I can't envision adding to that number and we're working closely with Alberta Learning so they understand that. We're still hoping to hold student numbers at current levels, rather than reducing enrolment, but continuing to take unfunded students is not sustainable."

**Q:** What can I do?

**A:**

- Continue to be careful stewards of operating dollars.
- Help the Funding Solutions Task Force identify opportunities for savings and revenues (e-mail: [von.whiting@ualberta.ca](mailto:von.whiting@ualberta.ca)).
- Buy from preferred and single-source suppliers to help the university leverage volume discounts.
- Take every opportunity you can to talk to neighbours, family and friends about why the University of Alberta matters to them.



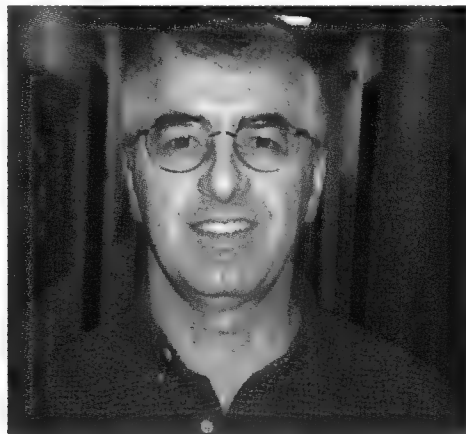
## Word on the street

The University of Alberta is in a difficult financial position. The Funding Solutions Task Force led to spending reductions and revenue enhancements amounting to an impressive \$17 million – equal to 20 per cent of the university's non-salary budget. Some positions have remained unfilled due to budget constraints, and even more needs to be done to hold costs. Students were asked:

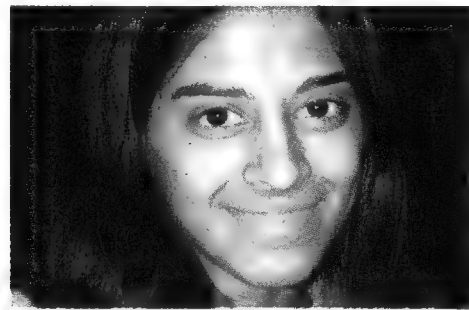
**Q:** When the university needs to reallocate dollars, what do you feel is sacred?



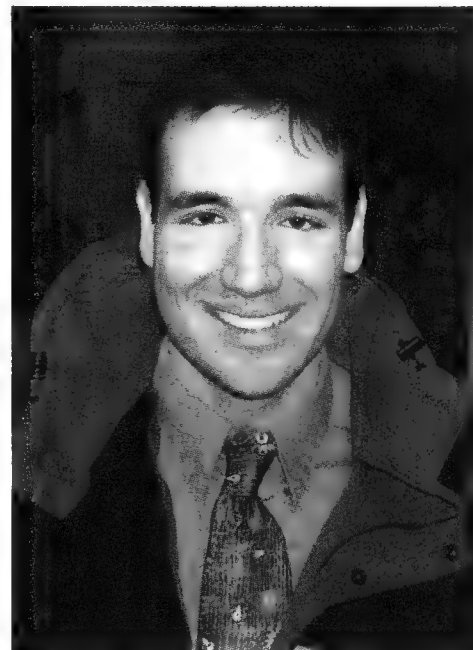
**A:** Jason Zhang, second-year science:  
"I would have to say the Physical Education Building – the gym and stuff like that. It's really important to have a healthy lifestyle. I'm kind of interested in that kind of stuff. It's a big part of my life and I enjoy it."



**A:** Dr. Martin Cowie, chair, department of chemistry  
"I think we're at the very bare bones now. Any cuts other than position (faculty and staff) cuts would be so small that they wouldn't make much difference. But with regard to position cuts, I can't see anywhere that they could possibly come from."



**A:** Karen Garcha, recent student  
"Computers. I can never find a computer around here. Also sports and extra-curricular activities. I think it's important because I don't think we have very good stuff right now in place, and if you cut back it will get even worse. I don't think we have any school spirit in this school, I really don't."



**A:** Dr. Chris Minio, professor, department of modern languages and cultural studies  
"Funding for undergraduate programs is essential. Undergraduate programs are the glue that holds this place together. Some students receive scholarships, but only on a year-to-year basis, and they take on jobs to ensure they can come back and finish their degrees, but sometimes they can't."



**A:** Lauren Andres, second-year anthropology and peer health educator  
"I wouldn't want any cuts to be made that would stop opportunities to have one-on-ones with professors or TAs, or any opportunities to get information from somebody who knows what they're talking about. There should also be more small classrooms, and anything that inhibits that, I would not support."



**A:** Dr. Mohamed Al-Hussein, professor, department of civil engineering  
"I think we can't cut the quality of teaching, which is related to the number of faculty members who teach the classes. We have to keep the classes to reasonable sizes."



**A:** Alana Pencney, first-year MBA  
"I know they'd never touch it anyway, but I'd probably say medical research. We're top of the country there, so we might as well keep excelling in what we excel at. There has been a lot of interesting progress there, such as everything going on in diabetes."



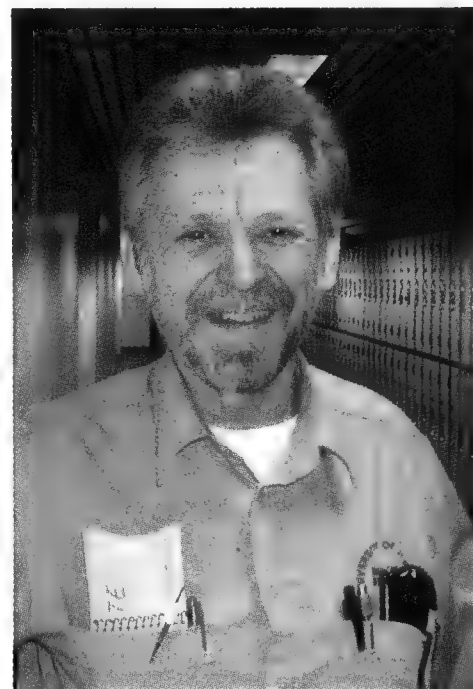
**A:** Leonard Sorochoan, Faculty of Extension  
"Basically things related to students, and most of the funding should come from the provincial government. I'm talking about things in the classroom, or close to the teaching environment – everything that will enhance learning or teaching. We need the best professors, the best facilities, materials and curriculum."



**A:** Diane Pysko, sterilization clerk, faculty of medicine and dentistry  
"We shouldn't cut existing support staff because they're the ones who deal with and help the students on a day-to-day basis. Support staff are next in line between the students and the faculty, and they're the ones that students come to when they need help."

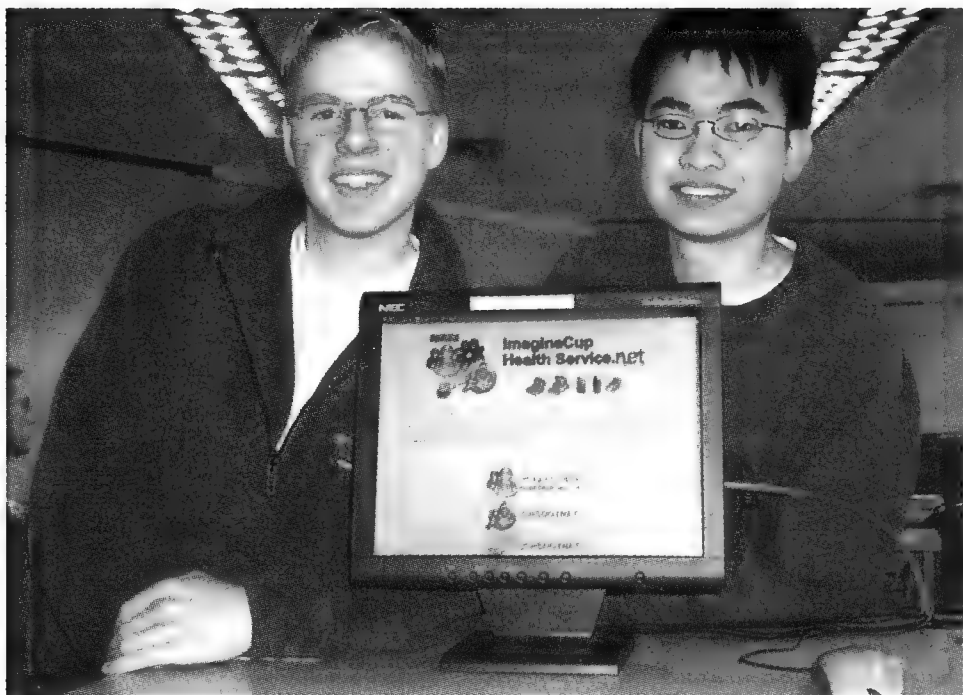


**A:** Dr. Jonathan Schaeffer, professor, department of computing science  
"The university is a special place. People are highly motivated to be here, and any cuts would upset the delicate balance that makes this such a special place... Cuts in research would be a huge loss, and cuts in teaching would be a huge loss."



**A:** Jack Vanden Heide, maintenance staff, building services  
"I've worked at the U of A since '86, and it seems each year we're cut back and asked to do more with less, and we're losing a lot of loyal and dedicated staff members. I know it's a dollar-and-cents issue, but I really don't think we can keep cutting as we have without losing something really important here – that feeling of caring and connection."





Mack Male and Dickson Wong with their award-winning computer program.

# Health care and ingenuity – it all computes for U of A team

*Students develop leading-edge software package*

By Bev Betkowski

A pair of computer engineering students at the University of Alberta have come up with an award-winning idea to help Canada's overworked health care system.

Dickson Wong and Mack Male's innovative computer program, which puts answers to simple health care questions at the fingertips of computer users the world over, earned top spot in Canada in a Microsoft contest.

Wong, 19, and Male, 20, placed first in Canada and moved on to international competition in Spain to place sixth in the world in the inaugural 2003 Imagine Cup Challenge. The event was sponsored by computer giant Microsoft. The U of A students had just a few scant weeks to create their project, which they called Imagine Cup Health Service (ICHS). The project combines MSN Messenger and other instant messaging systems with the power of Web services and a managed database to provide a worldwide question-and-answer service on health care.

Wong and Male, good friends since they were Grade 10 students at McNally High School, in Edmonton, spent hours designing and implementing their solution for answering and managing questions on everyday issues like mixing prescription drugs.

Though Capital Health has a similar telephone service through its Health Link service, Male and Wong wanted to take that to a higher level of technology, and consequently, to a new demographic.

"Instant messaging is huge with the younger generation. We wanted to bring something like (ICHS) to a medium they're already using," said Male, a third-year computer science student. Not only does it give that age group access through technology they like to use, but it does it privately, added Wong, a third-year student in computer engineering.

"They feel safer; nobody's seeing their face," Wong said.

The pair's work was excellent, said Ben Watson, national manager of developer and platform marketing for Microsoft Canada. Watson, who was one of the judges, said the project fit all the contest criteria. "They scored very high on innovation and creativity. You could go onto Messenger (an instant messaging application that allows people anywhere in the world on computers to communicate) and ask a question and it would try to find the answer in the database," said Watson.

If the answer wasn't in the database, ICHS searched the Internet for the answer, and if it still wasn't available, then the

system would attempt to connect the user with a health care professional. "They enabled an application to talk to other computer applications with no human involvement."

As well, the ICHS also had the ability to change answers from 'unknown' to 'known' as information came into its database, and the system includes support for popular mobile devices like cell phones and pocket PCs.

Wong and Male also scored high for the painstaking work that went into ICHS, Watson said. "The implementation of Web services was very solid. Their ability from a coding perspective was very advanced."

To meet Imagine Cup criteria, the project also had to be either socially responsible or economically viable. Wong and Male met not just one, but both requirements, Watson noted. "This project scored very high on both. It could very easily build a first line of defence for a health care monitoring system. It could also reduce impact on an overburdened health care system."

ICHS's underlying architecture could easily be adapted to most markets requiring a question-and-answer service, Watson added. Ideally, it would decrease the cost of support services while increasing the value for end users.

The pair's project is currently being tested by a bio-tech company as Male and Wong work out the kinks in the program through their own software firm. Eventually, they hope to sell a perfected product to either the health care or software industries.

Male, Wong and two new teammates are already working on a submission for the 2004 Imagine Cup.

It was rewarding to see many high-quality entries in the first Imagine Cup challenge, Watson said. Male and Wong had tough competition. "As one of the judges, it was very tough for me. I was amazed by the quality of programming these young developers submitted; the quality of the code, the creativity they showed. And I was amazed at the number of socially responsible projects put forward. Young programmers were building applications that would improve quality of life."

Other Canadian universities taking part in Imagine Cup were Simon Fraser, Carleton, Victoria, British Columbia, Regina, Toronto and Waterloo.

An information session on the 2004 competition is set for 5 p.m. Jan. 28 in the U of A Tory Lecture Basement 2. A Microsoft representative will be speaking. ■

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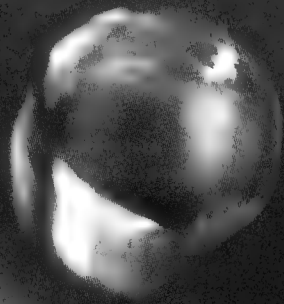
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# \$1.2 million grant opens more doors at Research Transition Facility

*Project helps new businesses grow*

By Bev Betkowski

A \$1.2 million federal contribution announced last week for the University of Alberta's Research Transition Facility is good news for academics on campus who want to take their findings into the business world.

The funding from Western Economic Diversification Canada is earmarked for expansion and development of the RTF, which had humble beginnings in 2000 inside the aging brick walls of a former residence for nurses. The building was acquired by the U of A from the Capital Health Authority, and a \$1.5-million provincial grant was used for renovations needed to turn the residence into a business centre. The space was then leased to various faculties and spinoff companies.

The new funding is being used to renovate sections of the RTF to increase wet lab and office space by about 23,000 square feet for new spinoff companies. Once renovations are complete, the RTF, which currently houses 13 spinoff companies, will have space for up to 24 emerging companies. The U of A also contributed \$460,000 towards the total project cost of \$1.6 million.

"This was clearly a good way of helping businesses that come out of the university succeed and grow," said Dr. Peter Robertson, director of the U of A's Technology Transfer Unit. The unit, which manages the RTF, is moving into the newly renovated space to better serve its clients – U of A researchers who want to start companies based on their knowledge and findings.

"Since spinoffs are the knowledge-based, high-tech companies of the future, this increased RTF capacity improves our potential to work as catalysts for long-term economic diversification," said Robertson.

The renovation project was a logical fit with his department's mandate of both growing and keeping businesses here, said Dr. Rey Pagtakhan, Minister of Western Economic Diversification. The former professor of medicine for the University of Manitoba was on campus recently touring



Dr. Peter Robertson, director of the U of A's Technology Transfer Unit at the Research Transition Facility site.

the U of A's nanotechnology facility.

"In addition to providing more efficient use of space for the U of A and those associated with important life sciences research, this project presents an improved opportunity for spinoff companies to access new markets and new applications," Pagtakhan said. "That means the economic benefits from the intellectual property will remain with the companies here in Alberta, facilitating both additional research and technology commercialization in the West."

The RTF was created to give the university's academics a place to combine their research with business – something that couldn't happen in the U of A's publicly funded labs. "It helps us manage the perception of conflict of interest," said Robertson. "In the early stages of development, companies often

are small and have very limited funds. It's tempting for academics to say, 'I'll operate it in a corner of my lab,' but the university says, 'No, you can't do that,'" said Robertson.

Dr. Mike Stiles, professor emeritus of agricultural, food and nutritional science, moved his fledgling firm, CanBiocin Inc. into an RTF wet lab last October. The company is interested in food preservation and animal disease, and needed a specialized space for its research. He had looked for commercial space off campus but found little that suited either his company's needs or budget.

"I didn't see being able to operate as efficiently as we are able to operate now. It has allowed us to make developments in the company which are not possible without the RTF and its support."

As of March 2003, the U of A had created 69 active spinoff companies which

employ more than 1,000 skilled workers in the region. About four new companies are launched from the RTF each year, and more than 80 per cent of spinoffs remain headquartered in Alberta in places like south Edmonton's research industrial park.

The RTF is meeting what appears to be a growing trend, Robertson noted.

"More and more, world-class researchers often think in terms of how their ideas and technologies can be commercialized, and a small percentage of them think in terms of creating their own companies – if we can create an environment that allows them to do that, it attracts and helps retain them. The academics working in high-tech areas are now starting to think about careers that are more than just teaching and research. There's a business side as well. That's been a big change in the last 10 to 20 years." ■

"In the early stages of development, companies often are small and have very limited funds. It's tempting for academics to say, 'I'll operate it in a corner of my lab,' but the university says, 'No, you can't do that.'"

– Dr. Peter Robertson

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# talks & events

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## JAN 23 2004

**School of Business MIS Recruiting Seminar.** Zhiling Guo, University of Texas, Austin will present "Market-based Decision Support Systems -- An Application in Supply Chain Coordination." Location: BUS Rm. 3-10. 2:00 p.m. to 3:30 p.m.

**FREE brown bag lunch seminar: Developing a Web Site to Find Work** Location: CaPS Resource Centre; 2-100 SUB. 12:00 p.m. to 1:00 p.m.

**Department of Physiology** "Bacterial-epithelial cross talk in the intestine." Speaker: Dr. Karen Madsen, Gastroenterology, Faculty of Medicine and Dentistry, U of A. Location: 207 Heritage Medical Research Centre. 3:00 p.m. to 4:00 p.m.

**Orchesis Dance Motif 2004** U of A students and alumni brought together by their passion for dance, take to the stage to perform modern and jazz choreography by guest artists, faculty and students. An eclectic evening of dynamic and diverse dance work. Location: Myer Horowitz Theatre, SUB. 8:00 p.m.

## JAN 24 2004

**Orchesis Dance Motif 2004** U of A students and alumni brought together by their passion for dance, take to the stage to perform modern and jazz choreography by guest artists, faculty and students. An eclectic evening of dynamic and diverse dance work. Location: Myer Horowitz Theatre, SUB. 8:00 p.m.

**Academic Support Centre** Strategies for Learning Anatomy & Physiology. 10am-12noon. \$30. Must pre-register at the Academic Support Centre, 2-703 SUB. Covers how to learn information presented in anatomy & physiology courses. Location: 357 Central Academic Building. 10:00 a.m. to 12:00 p.m.

## JAN 23 TO JAN 30 2004

**University of Alberta's International Week 2004** Event sponsored by University of Alberta International. The University of Alberta's International Week 2004 'Picking up the Peaces.' Events are free. Everyone is welcome. The full program is available in printed form throughout campus and at [www.international.ualberta.ca/iweek](http://www.international.ualberta.ca/iweek) Location: University of Alberta campus.

## JAN 25 2004

**Violin/Cello Masterclass with Visiting Artists Gryphon Trio** Please note: All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information (after office hours a recorded message will inform you of any changes to our schedule). Location: Venue and Time: TBA.

**Piano Masterclass with Visiting Artist Jamie Parker** Please note: All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information (after office hours a recorded message will inform you of any changes to our schedule). Location: Studio 27 Fine Arts Building. 10:00 a.m.

**University of Alberta Academy Strings** Tanya Prochazka, Conductor. Please note: All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information (after office hours a recorded message will inform you of any changes to our schedule). Location: Arts Building/Convocation Hall. 8:00 p.m.

## JAN 26 2004

**General Faculties Council** Meeting of January 26, 2004: New Business: Funding Solutions Task Force Report #2: For Information and Discussion; Aboriginal Student Policy (Section 108.13 of the GFC Policy Manual)/Proposed Changes Submitted by the Vice-Provost and Dean of Students; Recommendation of the GFC Executive Committee; Office of the Dean of Students/Proposed Changes to GFC Policies (Sections 11.9 and 50.5 of the GFC Policy Manual) Concerning the Admission of Aboriginal Applicants; Recommendation of the GFC Academic Planning Committee (APC); Reapportionment of GFC Seats: Letter from the Secretary. Location: Council Chamber

**Academic Support Centre** Tips for Enhancing Your Memory. 12:30-1pm. \$5. Must pre-register at the Academic Support Centre, 2-703 SUB. Location: 2-702 Students' Union Building (SUB). 12:30 p.m. to 1:00 p.m.

**School of Business MIS Recruiting Seminar.** Anindya Ghose, Carnegie Mellon, will present "Strategic Impact of Internet Referral Services on Channel Profits." Location: Banister Rm. 4-16 Business Building. 2:00 to 3:30 p.m.

**Department of English** Reading by Wendy McGrath. Location: HC 4-29. 2:00 p.m.

**Department of Computing Science** Distinguished Lecture Series. Dr Ying Xu, Professor and Georgia Research Alliance Eminent Scholar in Bioinformatics and Computational Biology, in the Dept of Biochemistry and Molecular Biology at the University of Georgia will present a talk entitled "Computational Methods in Protein Structure Prediction and characterization." Join us for coffee and cookies at 3 p.m. Website: <http://www.cs.ualberta.ca/events/dls/> Location: B-10 Computing Science Centre. 3:30 p.m.

**Noon Hour Organ Recital** A variety of organ repertoire played by students, faculty and guests of the University of Alberta. Please note: All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information (after office hours a recorded message will inform you of any changes to our schedule). 12:00 p.m. Location: Arts Building/Convocation Hall.

**FREE brown bag lunch seminar: Looking for Work as a Substitute Teacher** Location: CaPS Resource Centre; 2-100 SUB. 12:00 p.m. to 1:00 p.m.

**Workshop for Science Students: Career Selection** Location: CaPS; 2-100 SUB. 5:00 p.m. to 8:00 p.m.

**University Teaching Services** 1. What Students and Instructors Say About Academic Integrity. This session reports the findings of the Academic Integrity survey conducted in February 2002 at the U of A. An overview of survey results, including a brief comparison with results from Canadian and American institutions, will be followed by a discussion focusing on what has been learned from our students and instructors. Presenters: Bill Connor, Vice-Provost and Dean of Students and Deborah Eerkes, Truth\*in\*Education Program. 3:00 - 4:30 p.m. Monday 26 Jan. Location: CAB 243. Website: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts) Location: 243 Central Academic Building. 3:00 p.m. to 4:30 p.m.

**Management Information Systems Career Forum** Attend a CaPS career forum to learn about work in your academic discipline or in specific sectors of the labour market. Tickets are cheaper when you purchase them in advance at CaPS, 2-100 SUB. Location: TBA - watch our web site. 4:00 p.m. to 6:00 p.m.

## JAN 27 2004

**Doctor of Music Recital: Aaron Au, Viola** Please note: All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information (after office hours a recorded message will inform you of any changes to our schedule). Location: Arts Building/Convocation Hall. 8:00 p.m.

**FREE brown bag lunch seminar: Using the Internet to Find Work** Location: CaPS Resource Centre; 2-100 SUB. 12:30 p.m. to 1:45 p.m.

**University Teaching Services** Teaching Ethics Using Cases. A good teaching case is powerful in the University classroom. Cases get people talking with one another -- trying out ideas, trading points of view, sharing experiences, being energized, and having fun. This session showcases one instructor's practice with ethical cases that incorporate role play as a value-added pedagogical attribute. Participants will have an opportunity to experience a mini-case and discussion. Presenter: Rebecca Davis Mathias, St Joseph's College. Time: 3:30 - 4:30 p.m. Location: CAB 239. Website: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts) Location: 239 Central Academic Building. 3:30 p.m. to 4:30 p.m.

**Workshops for Students in Phys. Ed & Rec: Resume Writing** Location: CaPS classroom; 4-02 SUB. 4:00 p.m. to 6:45 p.m.

**Management & Business Studies Career Forum** Attend a CaPS career forum to learn about work in your academic discipline or in specific sectors of the labour market. Tickets are cheaper when you purchase them in advance at CaPS, 2-100 SUB. Location: TBA - watch our web site. 3:30 p.m. to 5:45 p.m.

**Academic Support Centre** Tips for Enhancing Your Memory. 12:30-1pm. \$5. Must pre-register at the Academic Support Centre, 2-703 SUB. Location: 2-702 Students' Union Building (SUB). 12:30 p.m. to 1:00 p.m.

**Academic Support Centre** Increasing Motivation & Decreasing Procrastination. 2:30-3:30pm. \$20. Must pre-register at the Academic Support Centre, 2-703 Students' Union Building (SUB). 2:30 p.m. to 3:30 p.m.

## JAN 28 2004

**Department of Public Health Sciences** PHS Grand Rounds. Guest Speaker: Dr Susan Ross,

## University of Alberta EMPLOYEE AND FAMILY ASSISTANCE PROGRAM CONFIDENTIAL COUNSELING SERVICES

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## WEEK OF WELLNESS

**Campus Recreation is pleased to offer two great events as part of Wellness Week on the U of A campus, March 14-20.**

**Old Time Skating Party**  
Sun, March 14 | 1445-1645  
Clare Drake Arena

**Call 492-2555 for More Information**

The U of A Concert Band will perform LIVE for skaters, family and friends. All are invited to either just skate on the ice, and/or participate in fun on-ice activities; or just sit in the stands and enjoy the music.

**Fitness Festival**  
Tuesday, March 16 | 1245-1345  
Pavilion Infield



**UNIVERSITY OF ALBERTA  
CAMPUS RECREATION**

Campus Recreation's fantastic fitness & dance instructors will lead you through a fun-filled workout that will include a sampling of a variety of classes offered by Campus Recreation



## ARE YOU LOOKING FOR A HAPPY DENTAL HOME?

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Ph: 439-2266 or visit our website at [www.fletcherdentist.ab.ca](http://www.fletcherdentist.ab.ca)

### The Faculty of Law Invites You to Attend **The Merv Leitch Q.C. Memorial Lecture** "The Adaptation of the Constitution to Environmental Concerns"

Presented by

**The Hon. Gérard La Forest**

Former Dean, Faculty of Law, University of Alberta

Former member of New Brunswick Court of Appeal, 1981 to 1985  
and of the Supreme Court of Canada, 1985 to 1997

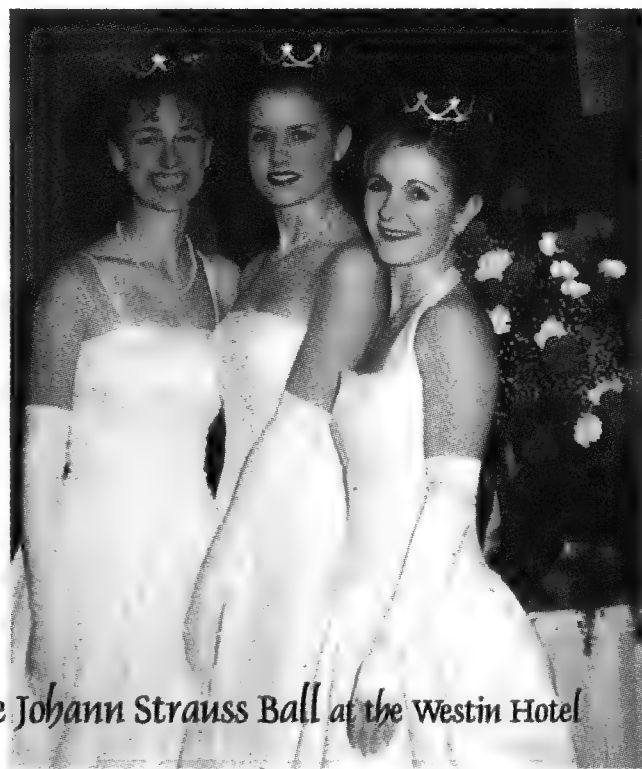
Presently Counsel with Stewart McKelvey Stirling Scales, Fredericton,  
NB and a Distinguished Legal Scholar at the University of New Brunswick

**Thursday, January 29, 12 Noon - 1 pm,**

McLennan Ross Hall (237 Law Centre),

Everyone Welcome - RSVP, 492-5590

## the Johann Strauss Foundation invites you to dance the night away



**The Johann Strauss Ball at the Westin Hotel**

**Saturday, February 14, 2004, 6pm**

**For your personal invitation and ticket purchase, please contact  
Ena Rudovics - 468 2728 or 436-4363  
e-mail: [info@johannstrauss.ca](mailto:info@johannstrauss.ca)**

*Scholarships provided by the Johann Strauss Foundation  
support students in their advanced studies of music in Austria.*

Associate Professor, Department of Health Policy,  
Management and Evaluation; Deputy Director,  
Maternal, Infant and Reproductive Health Research  
Unit (MIRU), Centre for Research in Women's  
Health, Sunnybrook and Women's College Health  
Sciences Centre, Toronto, Ontario "How Much  
Evidence is Enough (To Influence Clinical Practice  
and Policy)? Location: Room 2-117, Clinical Sciences  
Building. 12:00 p.m. to 1:30 p.m.

**FREE brown bag lunch seminar: Summer  
Work Search** Location: CaPS Resource Centre; 2-  
100 SUB. 12:00 p.m. to 1:00 p.m.

**Sigma Xi: The Scientific Research Society:**  
**Linda Pilarski** Lecture by Linda Pilarski, Oncology  
and NINT on "Novel technology for genetic analy-  
sis: microsystems and nanoscience". Monthly semi-  
nar of the University of Alberta chapter of Sigma Xi.  
Open to all. Reception begins at 4:30 p.m., seminar  
begins at 4:45 p.m. Location: M-145 Biological  
Sciences.

**University of Alberta Orchestral Winds and  
Percussion** Tanya Prochazka, Conductor. Please  
note: All concerts and events are subject to change  
without notice. Please call 492-0601 to confirm  
concert information (after office hours a recorded  
message will inform you of any changes to our  
schedule). Location: Arts Building/Convocation Hall.  
8:00 p.m.

**Academic Support Centre** Strategies for Oral  
Exams. 11am-12noon. \$20. Must pre-register at the  
Academic Support Centre, 2-703 SUB. Location:  
2-702 Students' Union Building (SUB). 11:00 a.m. to  
12:00 p.m.

**University Teaching Services** Perspectives  
on Plagiarism. A panel consisting of an instruc-  
tor, a student, a librarian, and the manager of the  
Academic Integrity Program, provides information  
and insights on plagiarism during this session.  
Strategies for the prevention of plagiarism will be  
discussed. Presenters: Anna Bombak, Libraries;  
Andrew Ede, History and Classics; Deborah Eerkes,  
Truth\*in\*Education Program; Janet Lo, Vice-  
President Academic, Students' Union. Time: 4:00 - 5:  
30 p.m. Location: Humanities Centre L1. Website:  
[www.ualberta.ca/~uts](http://www.ualberta.ca/~uts) 4:00 p.m. to 5:30 p.m.

### JAN 29 2004

**Environmental Research and Studies**  
**Centre** Climate Change: Adaptation, Impacts and  
Vulnerabilities. Dr. Ian Stirling, Canadian Wildlife  
Services, "Polar Bears, seals and climate in Hudson  
Bay and the High Arctic." Location: 2022 Dentistry/  
Pharmacy Centre. 4:30 p.m.

**English/Comparative Literature Career**  
**Forum** Attend a CaPS career forum to learn about  
work in your academic discipline or in specific sec-  
tors of the labour market. Tickets are cheaper when  
you purchase them in advance at CaPS, 2-100 SUB.  
Location: TBA - watch our web site. 3:30 p.m. to 5:  
30 p.m.

**FREE brown bag lunch seminar: Writing**  
**a Personal Statement** Location: CaPS Resource  
Centre; 2-100 SUB. 12:30 p.m. to 1:30 p.m.

**University Teaching Services**  
Cyberplagiarism: How to Spot it, How to Stop it.  
This panel discussion addresses the electronic  
issues surrounding plagiarism, including how  
to identify suspicious papers, an examination of  
online sources for pirated papers, detection soft-  
ware, and more. Participants are encouraged to  
come with their questions. Presenters: Jim Boyes,  
Academic Technologies for Learning; Lori-Ann  
Claerhout, Humanities Computing; Mo Engel,  
Arts Resource Centre; Carolyn Guertin, Academic  
Technologies for Learning Time: Thursday, 29  
January 2004, noon - 1:00 p.m. Location: Telus  
Centre 138 Website: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts)  
Location: 138 TELUS Centre for Professional  
Development. 12:00 p.m. to 1:00 p.m.

**Academic Technologies for Learning:**  
**Cyberplagiarism. How to Spot It. How to Stop**  
**It.** This panel discussion will address the electronic  
issues surrounding plagiarism including how to  
track down suspicious papers, an examination of  
on-line sources for pirated papers, a look at vari-  
ous detection softwares, and more. Participants  
are encouraged to come with their questions.  
Panelists: Jim Boyes, Lori Claerhout, Mo Engel, and  
Carolyn Guertin. Location: 238 TELUS Centre for  
Professional Development. 12:00 p.m. to 1:00 p.m.

**Workshop for Arts Students: Career**  
**Selection** Location: CaPS classroom; 4-02 SUB. 2:00  
p.m. to 5:45 p.m.

**University Teaching Services** Whose Course  
is it Anyway? This session is directed at copyright  
as it relates to the educational process and, in  
particular, to online courses. Issues of ownership  
and use of copyrighted materials will be discussed,  
as well as consideration and procedures to be  
addressed when using others' creations. Presenters:  
Wendy Caplan and Bob Kennedy, Computing  
and Network Services. Time: Thursday, 29 January  
2004, 3:30 - 5:30 p.m. Location: CAB 243. Website:  
[www.ualberta.ca/~uts](http://www.ualberta.ca/~uts) 3:30 p.m. to 5:30 p.m.

**Workshop for Science & Engineering**  
**Students: Interview Skills** Location: CaPS class-  
room; 4-02 SUB. 5:30 p.m. to 8:45 p.m.

### JAN 30 2004

**University Teaching Services** Teaching and  
Research. In September 2003, Alan Jenkins of the  
Westminster Institute at Oxford Brooks University  
began a dialogue on the links between teaching  
and research. This session furthers that dialogue  
by considering how research might benefit  
teaching. Facilitators: John Hoddinott, Biological  
Sciences and Brad Wuetherick, Faculty of Graduate  
Studies and Research. Noon to 1:00 p.m. Website:  
[www.ualberta.ca/~uts](http://www.ualberta.ca/~uts) Location: 219 Central  
Academic Building. 12:00 p.m. to 1:00 p.m.

**School of Business** MIS Recruiting Seminar.  
Nihat Kasap, University of Florida will present  
"Data Transmission Strategies over Networks with  
Different Qos Levels and All you Can Send Pricing  
Scheme." Location: BUS Rm. 3-10. 2:00 to 3:30 p.m.

**Resonances of Research in the Fine Arts.**  
Conference. Presentation of research by faculty and  
grad students in Music, Art & Design, and Theatre.  
Thirteen (13) sessions in total. 10:00 a.m. to 4:30  
p.m. Wine and Cheese at 4:30 p.m. Location: FAB  
2-30.

**Biological Sciences** MICRB 606/607 Seminar  
Series presents a Guest Seminar by Dr. Sonya Kujat  
Choy, Post-doctoral Fellow, Brett Finlay laboratory,  
Biotechnology Laboratory, University of British  
Columbia. "Translocated Effectors of the Type III  
Secretion System in Salmonella." Location: M-137  
Biological Sciences. 11:00 a.m.

**FREE brown bag lunch seminar: Cover**  
**Letters & Other Work Search Letters** Location:  
CaPS Resource Centre; 2-100 SUB. 12:00 p.m.  
to 1:00 p.m.

**Biological Sciences** Molecular Biology and  
Genetics Group Seminars Grant Brown of the  
University of Toronto will be giving a seminar on  
"Probing the DNA damage response using func-  
tional genomics techniques in yeast." Location: M  
149 Biological Sciences. 3:30 p.m.

**Department of Biological Sciences**  
Departmental Seminar. The Department of  
Biological Sciences is pleased to present David  
W. Krause, Distinguished Service Professor,  
Department of Anatomical Sciences, Stony Brook  
University, Long Island, NY. Dr. Krause will be  
speaking on "Madagascar's Buried Treasure:  
Insights into the Biogeographic History of the Land  
that Time Forgot" at 3:30 p.m. on Friday, January  
30. Refreshments will be served at 3:15 p.m. Hosted  
by Dr. Richard Fox. Location: M 145 Biological  
Sciences Bldg. Location: M 145 Biological  
Sciences. 3:30 p.m.

**Biopreservation Students' Association**  
Dr. Jens Karlsson, from the Georgia Institute of  
Technology, will be giving a lecture on how  
mathematical modeling can be used in the field  
of cryobiology. If you are interested in attending  
this lecture, please RSVP by January 28th, 2004 to  
Richelle (rcb1@ualberta.ca), because space is lim-  
ited. Location: ETLC E6-060. 9:00 a.m. to 10:00 a.m.

### JAN 31 2004

**Pharmacy Career Fair** Network with employ-  
ers who come to campus to recruit U of A students  
and alumni. Location: Dinwoodie Lounge; 2-000  
SUB. 11:00 a.m. to 3:00 p.m.

**Get the Jump on Spring** Devonian Botanic  
Garden. Get the Jump on Spring. Pre-season gar-  
dening information and fun! Featuring seed sales,  
seed exchanges, free gardening lectures, along  
with horticultural societies and allied groups on  
site. Commercial vendors, kids activities and prizes  
will also be included! Admission: \$2.00 per person/  
children under 12 FREE. Admission includes access  
to the Kurimoto Japanese Garden and all indoor  
show houses. There will be food at a reasonable  
cost. Contact Linda, Gordon or Ian at the Garden  
(780) 987-3054 for further information. Location:  
Devonian Botanic Garden (25 mins Southwest of  
West Edmonton Mall and 5 KM North of the Town  
of Devon on Hwy 60. January 31, 2004. Website:  
[www.discoveredmonton.com/devonian](http://www.discoveredmonton.com/devonian)

**Academic Support Centre** Exam Strategies.  
10am-12noon. \$30. Must pre-register at the  
Academic Support Centre, 2-703 SUB. Covers how  
to prepare for and take multiple choice, short  
answer, essay & problem solving exams. Location:  
2-702 Students' Union Building (SUB). 10:00 a.m. to  
12:00 p.m.

**Academic Support Centre** Putting Together  
Conference Presentations & Posters. 1-3pm. \$30.  
Must pre-register at the Academic Support Centre,  
2-703 SUB. Grad students ONLY. Location: 357  
Central Academic Building (CAB). 1:00 p.m.  
to 3:00 p.m.

**Academic Support Centre** Study Strategies.  
1-4pm. \$40. Must pre-register at the Academic  
Support Centre, 2-703 SUB. Covers practical time  
management, note-taking, reading & memory  
strategies. Location: 2-702 Students' Union Building  
(SUB). 1:00 p.m. to 4:00 p.m.

**Master of Music Recital: Brendan Lord,**  
**Choral Conducting** Please note: All concerts and  
events are subject to change without notice. Please  
call 492-0601 to confirm concert information (after  
office hours a recorded message will inform you of



any changes to our schedule). Location: All Saints' Anglican Cathedral, 10035 103 Street. 8:00 p.m.

## FEB 02 2004

**Department of Computing Science**  
Distinguished Lecture Series. Dr Peter Shirley, Department of Computer Science, University of Utah will present a lecture entitled "Virtual Reality: Promises and Pitfalls" at 3:30 p.m. in CSC B-10. Please join us for coffee and cookies at 3:00 p.m. Location: CSC B-10. Website: <http://www.cs.ualberta.ca/events/dls/> Location: B-10 Computing Science Centre. 3:30 p.m.

**Music at Noon, Convocation Hall Student Recital Series** Featuring students from the Department of Music. Please note: All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information (after office hours a recorded message will inform you of any changes to our schedule). Location: Arts Building/Convocation Hall. 12:00 p.m.

**Workshop for Students in Arts & Business: Resume Writing** Pre-register today at CaPS, 2-100 SUB. For workshop details, check out our web site. Location: CaPS classroom; 4-02 SUB. 3:00 p.m. to 5:30 p.m.

**FREE brown bag lunch seminar: Career Tips for First Year Students** Location: CaPS Resource Centre; 2-100 SUB. 12:00 p.m. to 1:00 p.m.

**Academic Technologies for Learning** Active Learning, Part II. Active Learning Strategies for the Fearless. Building on the "Active Learning, Part I" workshop, this workshop provides an introduction to techniques that revamp an instructor's teaching style. This workshop will explore activities such as case study, active review strategies, problem-based learning, problem-solving through think-aloud exercises, panels and role-playing. Be prepared to participate. Co-sponsored by UTS. Go to: <http://www.ualberta.ca/uts/> to register. Instructor: Ellen Whybrow. Location: 134 TELUS Centre for Professional Development. 3:30 p.m. to 5:00 p.m.

**Academic Support Centre** Effective Exam Writing Tips. 12:30-1pm. \$5. Must pre-register at the Academic Support Centre, 2-703 SUB. Location: 2-702 Students' Union Building (SUB). 12:30 p.m. to 1:00 p.m.

**Academic Support Centre** Strategies for Short Answer & Essay Exams. 2-3pm. \$20. Must pre-register at the Academic Support Centre, 2-703 SUB. Location: 2-702 Students' Union Building (SUB). 2:00 p.m. to 3:00 p.m.

**Workshop for Students in Arts & Business: Resume Writing** Pre-register today at CaPS, 2-100 SUB. For workshop details, check out our web site. Location: CaPS classroom; 4-02 SUB. 3:00 p.m. to 5:30 p.m.

## FEB 03 2004

**Picard Lecture in Health Law** "The Genome, Eugenics and Human Rights" Speaker: Dr Daniel Kevles, Yale University Reception at 4 pm in the Faculty Lounge, Lecture at 5 pm Please RSVP to [ninahawk@law.ualberta.ca](mailto:ninahawk@law.ualberta.ca) Location: Room 237 Law Centre. 4:00 p.m.

**FREE brown bag lunch seminar: Making Career Fairs Work For You!** Location: CaPS Resource Centre; 2-100 SUB. 12:30 p.m. to 1:30 p.m.

**Health Minister Gary Mar Speaks Out!** Alberta's Health Minister SPEAKS OUT! as part of the new Speak Out! Speakers Series in Dinwoodie Lounge in SUB, speaking about the future of healthcare and its sustainability. Ask him questions during our free, one-on-one question period! Location: Dinwoodie Lounge. 4:00 p.m.

**Centre for Health Promotion Studies** Centre for Health Promotion Studies: Research Seminar Series. Dr. John Church, PhD Assistant Professor (Joint appointment: Centre for Health Promotion Studies and Department of Political Science, Faculty of Arts). "Citizen Participation In Community Health Centres." Location: 2-50 Extension Centre. 12:00 p.m. to 1:00 p.m.

**Economics Career Forum** Attend a CaPS career forum to learn about work in your academic discipline or in specific sectors of the labour market. Tickets are cheaper when you purchase them in advance at CaPS, 2-100 SUB. Location: TBA - watch our web site. 3:30 p.m. to 5:45 p.m.

**Academic Support Centre** Effective Exam Writing Tips. 12:30-1pm. \$5. Must pre-register at the Academic Support Centre, 2-703 SUB. Location: 2-702 Students' Union Building (SUB). 12:30 p.m. to 1:00 p.m.

**Workshop for Students in Phys. Ed & Rec: Interview Skills** Pre-register today at CaPS, 2-100 SUB. Check out our web site for details such as fees. Location: CaPS classroom; 4-02 SUB. 4:00 p.m. to 6:30 p.m.

**University Teaching Services** PowerPoint Texts and Pictures. This hands-on session reviews the basic features of PowerPoint, and provides sources for clip art and pictures that can enhance presentations and become hooks for student learning. Scanned images are also discussed. Limited computer workstations available.

able. Presenter: Kevin Moffitt, Technology Training Centre. Tuesday, 3 February 2004, 5:00 - 6:00 p.m. Location: Technology Training Centre. Website: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts) Location: TBA 5:00 p.m. to 6:00 p.m.

**J.B. Collip Club Lecture Series Continues!** Dr. Karen Madsen, Professor of Gastroenterology will present "Probiotics: Friends or Foe?", a discussion of whether we need more bacteria in our lives. Can we make space and provide a bigger place for bugs? Dr. Madsen's presentation follows the buffet dinner and a mixer (cash bar). Dinner prices are \$10.00 for students, PDFs, Technicians and Residents. Faculty Members are charged \$18.00, all admission are payable at the door. Please RSVP by contacting Ava Glen or Dr. Susan Andrew by Friday, January 30th, 2004. For more information about this presentation, please call Dr. Susan Andrew at 492 - 1127 or email Dr. Andrew at [susan.andrew@ualberta.ca](mailto:susan.andrew@ualberta.ca). We look forward to seeing you there! Location: Saskatchewan Room, Faculty Club, U of A. 6:00 p.m. to 8:30 p.m.

**Academic Support Centre** Strategies for Multiple Choice Exams 2-3pm. \$20. Must pre-register at the Academic Support Centre, 2-703 SUB. Location: 2-702 SUB Running 2/3/2004 to 2/3/2004 Location: 2-702 Students' Union Building (SUB). 2:00 p.m. to 3:00 p.m.

## FEB 04 TO FEB 06 2004

**Dr. Dorothy E. Smith to lecture at U of A** The Sociology Graduate Students' Association is bringing Dorothy Smith, renowned Canadian feminist scholar, to the University of Alberta campus February 4-6th. Dr. Smith will be giving a public lecture ("Women's Standpoint and the Ruling Relations") Feb. 4 from 4-6 p.m. in Humanities LT 3. In addition, there will be a graduate student talk on Feb. 5 (9:30-11, Tory 5-15) and a brown bag talk on Feb. 6 (12:00-1:00 p.m., University Extension Centre 6-10). Prior to Dr. Smith's visit, readings groups will be held on Jan. 19 and Jan. 29. All events are open to anyone who is interested. For more information on these events, please see the sociology grad webpage: ([www.arts.ualberta.ca/~socgrad](http://www.arts.ualberta.ca/~socgrad)) This event has been sponsored by a GSA Lecture Grant and funding from the departments of Sociology, Women's Studies, Human Ecology, the International Institute of Qualitative Methodology, FGSR and the Sociology Graduate Students' Association. Location: multiple.

## FEB 04 2004

**Workshop for Students in Arts & Business: Interview Skills** Pre-register today at CaPS, 2-100 SUB. For details such as fees, check out our web site. Location: 2-702 SUB. 3:00 p.m. to 5:30 p.m.

**FREE brown bag lunch seminar: Strategies for Tapping the Hidden Job Market** Location: CaPS Resource Centre; 2-100 SUB. 12:00 p.m. to 1:00 p.m.

**University Teaching Services** MicrobeCards: Infectious Diseases on Deck. MicrobeCards were born of a need to provide a simple and effective way for nursing and medical students to review the many causes of human infectious diseases. A summary of how the project was born of a fondness for trading cards will be followed by details of the main features that make the cards a useful study tool for students of the allied health sciences. Presenter: Mark Pepler, Medical Microbiology and Immunology. Wednesday, 4 February 2004, 3:30 - 4:30 p.m. Location: CAB 281. Website: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts) Location: 281 Central Academic Building

**Department of Public Health Sciences** PHS Grand Rounds. Guest Speaker: Dr Jonathan Martin, Postdoctoral Researcher, University of Toronto, Department of Pharmacology, speaking on "Perfluoroalkyl Contaminants: Evading Detection and Breaking the Rules of Environmental Chemistry." Location: Room 2-117, Clinical Sciences Building. 12:00 to 1:30 p.m.

**Canadian Institute of Ukrainian Studies** Lecture and Presentation. Dr. Vitaliy Bondar, Institute of Special Education, Academy of Pedagogical Sciences of Ukraine, and Dr. Michael Rodda with Ihor Kobel, Department of Educational Psychology, University of Alberta, will speak on "Challenges in the Education of Children with Special Needs in Ukraine." (The presentation by Dr. Bondar will be in Ukrainian. English translation to be provided). At 7:00 p.m. Location: Room 333, Computing Science Centre. 7:00 p.m.

## FEB 05 2004

**Academic Women's Association** Breaking the Cycle: Achieving Balance in Academic Life. AWA Brown Bag Event. Speakers are Gretchen Hess (Vice-Provost), and Lynn Penrod (Assoc. Dean, Faculty of Arts). 12 noon to 1 p.m. Location: 219 Central Academic Building. 12:00 p.m. to 1:00 p.m.

## UNTIL FEB 24 2004

**Making it work...Better! (Improving intimate relationships)** A 5 week course on improving intimate relationships. Both individuals and couples interested in strengthening romantic relationships

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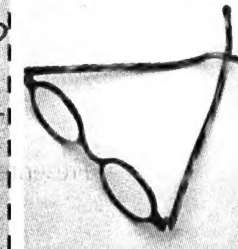
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- University of Alberta students
- faculty and staff
- U of A alumni
- and the community.

## Equipment

### Aerobic Equipment

- Treadmills
- Stationary bikes
- Recumbant bikes
- Rowing machines
- Elliptical cross-trainers

### Resistance Equipment

- Olympic bench press
- Olympic incline press
- Olympic shoulder press
- Dip/chin stand
- Flat to military bench press
- Pressing chair
- Vertical chest

- Vertical row
- Shoulder press
- Bicep curl
- Tricep extension
- Multi-station
- Leg extension
- Leg curl
- Decline bench
- Horizontal leg press
- Abdominal machine

### Other Equipment

- Free weights
- Floor mats

## Daily Prices and Membership Rates - 2004

	Daily	Monthly	4-Month	Annual
Community	\$5.00	\$40.00	\$120.00	\$240.00
U of A Staff/ Alumni & Seniors	\$4.50	\$36.00	\$108.00	\$216.00
U of A Students & Youth	\$4.00	\$32.00	\$96.00	\$192.00

## Standard Hours of Operation

Monday - Friday 6:00am to 9:00 pm

Saturday & Sunday 9:00am to 4:00 pm

Closed on statutory holidays and for special events

are invited to join this 5 session (2hrs/session) workshop. Together we will wonder about communication, how to balance "me" and "us", and other topics of interest to group members. Phone 492-5205 or drop by 2-600 SUB to sign up. Location: Student Counselling Services, 2-600 SUB. 1:30 p.m. to 3:30 p.m.

### UNTIL MAR 17 2004

**Department of English** This is a series of seminars. Doing It In the Dark - Conversations About Film. Jan.23,3:00,HCL-3-Bill Beard-"Fascinating Fascism: A Case Study of Triumph of the Will" Thurs.,Feb.5,3:30,tba-Jerry White and Heather Zwicker-"Our Sharpevill, Our Amritsar: Perspectives on Greengrass's 'Bloody Sunday'" Wed.,Mar.3,3:00,HCL-3-Onò Okome-"From the Periphery of the Visual Space: The Video Film in Nigeria"

# notices

Please send notices attention Folio, 6th floor General Services Building, University of Alberta, T6G 2H1 or e-mail public.affairs@ualberta.ca. Notices should be received by 3 p.m. Thursday one week prior to publication.

### PRESIDENTIAL SEARCH COMMITTEE: FACULTY NOMINATIONS

Dr. Roderick Fraser has advised the Board Chair, Mr. James Edwards, that he will end his term as President on June 30, 2005, the end date of his current appointment. The Board of Governors, in accordance with GFC and Board-approved procedures set out in Section 102.1(C) of the GFC Policy Manual, is therefore establishing a Search Committee. Service on this committee involves a significant time commitment.

The composition of the Presidential Search Committee includes three members of the continuing full-time, and continuing part-time, faculty (Categories A1.1, A1.5 or their counterparts in A1.6) who do not hold administrative positions as defined in Section 22.3.2(4) of the GFC Policy Manual, available online at [www.ualberta.ca/SECRETARIAT/](http://www.ualberta.ca/SECRETARIAT/). Staff who are on leave are not eligible to serve.

Written nominations supported by the signatures of five members of the continuing full-time and/or continuing part-time academic staff (ie Faculty, APOs, FSOs, Librarians), not including the nominee, may be submitted to the Director of the University Secretariat, Ms Ellen Schoeck, 2-5 University Hall. Nominations must be received in the University Secretariat by noon, Monday, January 27, 2004. Nominees must agree to stand for election to the Search Committee. GFC regulations require that nominees should not be holders of an administrative position, such as Dean or Department Chair, since administrators are already represented on the Search Committee. The composition of this 16-member Presidential Search Committee, together with nomination and election procedures, are contained in Section 102 of the GFC Policy Manual, which is available in the University Secretariat (2-5 University Hall) and online, as noted above. If you have any questions about eligibility to serve or to nominate, please call Ms. Ellen Schoeck at local 2-5430 or Mr. Garry Bodnar at local 492-4733.

### UNIVERSITY OF ALBERTA SECTOR PLAN FOR SECTORS 3, 4 & 8

#### OPEN HOUSE FEBRUARY 4, 2004

Please join us to review the progress of sector planning for the university's Main Campus. The goal of the Open House is to provide information and generate feedback. A presentation will take place Feb. 4 at 7:30 p.m. at the Telus Centre for Professional Development (corner of 87 Avenue and 111 street) followed by a question and answer segment. University staff will be on hand to answer questions and gather responses.

The Sector Plan is a planning document that provides development direction. Sectors 3 & 4 are the areas located from 116 street to HUB. Sector 8 is the area located between 111 street and 110 street and Saskatchewan Drive and 87 Avenue. Derived from the Long Range Development Plan (LRDP), the Plan will help accommodate future growth as the university continues to build on its success as a leading institution of teaching and research.

Your participation is important and we hope to see you there. If you are unable to attend please refer to our website at [www.ualberta.ca/consult](http://www.ualberta.ca/consult) for information regarding the Plan.

For more information please contact Emily Rowan, Office of Public Affairs, 689 General Services Building, University of Alberta, Edmonton, AB, T6G 2H1 Phone: (780) 492-3024. Fax: (780) 492-2997.

### NOMINATIONS FOR 3M TEACHING FELLOWSHIPS SOUGHT

Nominations for 3M Teaching Fellowships are now being accepted. The fellowships are awarded by the Society for Teaching and Learning in Higher Education and 3M Canada Inc. Any individual teaching at a Canadian university (regardless of discipline or level of appointment) is eligible. An exclusive three-day (6-8 November 2004), all

Tues.,Mar.9,3:30,HCL-3-Doug Bell-"Writing (and Acting) on the Verge of a Nervous Breakdown" Wed.,Mar.17,3:00,HCL-3-Julie Rak-"Fear of a Queer Planet: Watching 'Cat Women of the Moon'(1953)" Location: see above.

### UNTIL MAR 24 2004

**Social Anxiety & Shyness Group** Do you feel ANXIOUS when you are: Public Speaking, meeting strangers, eating in public places, talking to people in authority, participating in class or small groups, speaking to members of the opposite sex or looking at people very well in the eyes? If so, join our social Anxiety & Shyness Group. 8 Wednesdays, 2:00 p.m. to 4:00 p.m. Starts January 28th, register by January 23rd. Phone 492-5205 or drop by to sign up! Location: Student Counselling Services, 2-600 SUB.

expense paid retreat at Le Chateau Montebello is the main component of the award.

Up to 10 awards are given annually. The University of Alberta has received 23 awards during the 18-year existence of the national 3M Teaching Fellowships Program.

Nomination information is available at University Teaching Services, 215 Central Academic Building, 492-2826 or at the following websites: [www.tss.uoguelph.ca/stlhe](http://www.tss.uoguelph.ca/stlhe) or [www.mcmaster.ca/3Mteachingfellowships/](http://www.mcmaster.ca/3Mteachingfellowships/)

Deadline is March 5 2004.

### CHAIR REVIEW COMMITTEE: FACULTY OF ARTS

Dr. Nancy Lovell's first term as Chair of the Anthropology Department will end on June 30, 2004, and in accordance with University regulations a Review Committee has been established. Dr. Lovell has indicated that she intends to seek a second term in office.

An open Public Forum with Dr. Lovell has been scheduled for 3:00 p.m., Friday, January 30 in Room 1, Tory Breezeway, at which Dr. Lovell will discuss her vision for the future direction of the department. The Review Committee invites comments from members of the University community on the state of the Anthropology Department under the leadership of the current Chair. Comments should be addressed to Daniel Woolf, Dean of Arts, 6-33 Humanities, and reach the Dean's Office by February 6.

### CHAIR SELECTION COMMITTEES: FACULTY OF ARTS

The Faculty of Arts wishes to announce that chair selection committees have been established for the departments of Economics and Political Science. The committees invite nominations for the position of Chair in these departments as well as comments from members of the University community by January 30, 2004. These should be addressed to Daniel Woolf, Dean of Arts, 6-33 Humanities; E-mail: [artsdean@ualberta.ca](mailto:artsdean@ualberta.ca).

### DIRECTOR SELECTION COMMITTEES: FACULTY OF ARTS

The Faculty of Arts wishes to announce that director selection committees have been established for the following programs: Comparative Literature, Middle Eastern and African Studies, Religious Studies, and Science Technology and Society. The committees invite nominations for the position of director in these programs as well as comments from members of the University community by January 30, 2004. These should be addressed to Rick Szostak, Associate Dean (Interdisciplinary and International Studies), 6-33 Humanities; E-mail: [rick.szostak@ualberta.ca](mailto:rick.szostak@ualberta.ca).

### CHAIR REVIEW COMMITTEE: FACULTY OF ARTS

Dr. Rosalind Sydie's first term as Chair of the Sociology Department will end on June 30, 2004, and she has indicated her intention to seek another term in office. In accordance with University regulations a Review Committee has been established.

An open Public Forum with Dr. Sydie has been scheduled for Thursday, February 5 at 4 p.m. in 5-15 Tory, at which Dr. Sydie will discuss her vision for the future direction of the department. The Review Committee invites comments from members of the university community on the state of the Sociology Department under the leadership of the current Chair. Comments should be addressed to Kenneth Munro, Associate Dean of Arts, 6-33 Humanities, and reach the Faculty Office by February 16.

### BOARD OF GOVERNORS AWARD OF DISTINCTION

Nominations are being sought for volunteers who have made exceptional contributions in linking the university with the broader community. A volunteer from each of the academic staff, support staff and general public will be recognized with an award. Nomination deadline is May 3, 2004. Please visit [ualberta.ca/governors/distinction](http://ualberta.ca/governors/distinction) or call 492-4951 for information.



# positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPPA). The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons. With regard to teaching positions: All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. For complete U of A job listings visit [www.hrs.ualberta.ca](http://www.hrs.ualberta.ca)

## ASSISTANT REGISTRAR — EXAMINATIONS AND TIMETABLING

The University of Alberta seeks an energetic, service-oriented professional to lead the Examinations and Timetabling Unit within the Office of the Registrar and Student Awards.

The Office of the Registrar and Student Awards provides student and academic support services and systems to the university community. The assistant registrar examinations and timetabling reports to the associate registrar and director of records and manages a unit of eight staff members.

The position provides leadership through the management of the official course record of the university, the class schedule, centrally controlled classroom space, university and standardized entrance examinations, related aspects of the student information system including Bear Tracks, and special events on campus.

If you are the successful candidate, your background includes experience in academic course records management, registration, and student information systems, an undergraduate degree (or equivalent), and knowledge of the PeopleSoft Student Administration system. You will have strong management, organizational and project management skills, interpersonal skills, and proven dedication to customer service.

The closing date for the receipt of applications is Monday, January 26, 2004.

The salary range for this full-time continuing Administrative/Professional Officer position is from \$45,037 to \$71,315. A letter of application, résumé, and a list of three professional references should be sent to:

Ada Schmude  
Associate Registrar and Director of Records  
Office of the Registrar and Student Awards  
University of Alberta  
201 Administration Building  
Edmonton, Alberta T6G 2M7  
Please note that the acting incumbent will be a candidate for the position.

## CANADA RESEARCH CHAIR IN AGRICULTURAL BIOTECHNOLOGY

The University of Alberta invites applicants with outstanding academic and leadership skills in the area of agricultural biotechnology to apply for a Canada Research Chair (Tier I or Tier II) in agricultural biotechnology. This new and challenging position in the Department of Agricultural, Food and Nutritional Science offers an exceptional opportunity to play a leadership role in Alberta's developing bio-based economy.

Alberta, one of the world's most productive agricultural economies, has the strategic vision to expand its value-added agri-food and agri-industrial sector to \$20 billion by 2010. The development of agricultural products with specifications directed towards value-adding processes will be critical in achieving this goal. The chair will provide scientific direction and co-ordination of a program aimed to deliver value-enhanced agricultural products into value-added production chains.

The Department of Agricultural, Food and Nutritional Science ([www.afns.ualberta.ca](http://www.afns.ualberta.ca)) has strengths across the spectrum of animal and plant production, value-added food and non-food processing, and human nutrition. In addition to existing excellent animal research facilities, major new facilities are being developed to provide leading-edge food safety and processing laboratories at Agri-Food Discovery Place. These facilities, developed in partnership with provincial, federal and industry collaborators, will be located at the Edmonton Research Station, University of Alberta's South Campus. Other major related initiatives include establishing a Chair in Functional Foods and Nutraceuticals, the Agri-Food Materials Science Centre and a planned major expansion to the Department's Biotech Centre laboratories.

The successful candidate will have a PhD in an appropriate discipline such as molecular biology. (Specialties in plant genomics or signal transduction in multi-cellular organisms would be an asset.) We are seeking a chair with an outstanding record of research accomplishments, a vibrant and ongoing research program, and acknowledgement by peers as an international leader in their area. The

candidate will have the vision and proven talent essential to building successful collaborative research programs that cross institutional and disciplinary boundaries. Teaching is expected at the undergraduate and graduate level.

The Canada Research Chair (CRC) program was established by the government of Canada to enable Canadian universities to achieve the highest levels of research excellence in the global, knowledge-based economy (<http://www.chairs.gc.ca>). The candidate nominated by the department will be subject to review by the CRC Secretariat and appointment is conditional upon its approval. The appointment will be at either an associate professor or a full professor level.

Applications, including a statement of research interest, curriculum vitae and the name of three referees, should be sent to Dr. John Kennelly, Chair, Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, Alberta, Canada T6G 2P5. Closing date for applications is March 1, 2004 or until a suitable candidate is found. For further information on this position contact Dr. Kennelly at: Tel (780) 492 2131 / Fax (780) 492 4265 / e-mail: [afns-chair@ualberta.ca](mailto:afns-chair@ualberta.ca)

## ADMINISTRATIVE PROFESSIONAL OFFICER UNDERGRADUATE STUDENT SERVICES FACULTY OF ARTS

Applications are invited for the position of administrative professional officer in the under-

graduate student services of the Faculty of Arts. As one of three senior advisers, the successful candidate will be responsible for a portion of the faculty's students, including but not limited to: domestic and international admissions and refusals, determination of transfer credit, program advising, and graduation eligibility checking for all degree programs.

The Faculty of Arts is one of the largest at the University of Alberta, comprising 15 departments and offering eight degree programs to about 6,000 undergraduate students.

A post-secondary degree is required for this position. The successful candidate will have proven administrative and organizational abilities, superior written and oral communication skills, and be familiar with post-secondary admission policies and student records. Knowledge of this university's administrative structure, a working knowledge of PeopleSoft Student Administration, or other student information systems is highly desirable. Candidates are also expected to be proficient in the Microsoft suite of programs.

The salary range for this full-time continuing position is \$41,805 - \$66,193 commensurate with qualifications and experience. Applications, together with the names of three references, should be submitted to: Miss Robin A Cowan, Director, Undergraduate Student Services, Faculty of Arts, 6-7 Humanities Building, University of Alberta, Edmonton, Alberta T6G 2E5. Deadline for receipt of applications is January 30, 2004.

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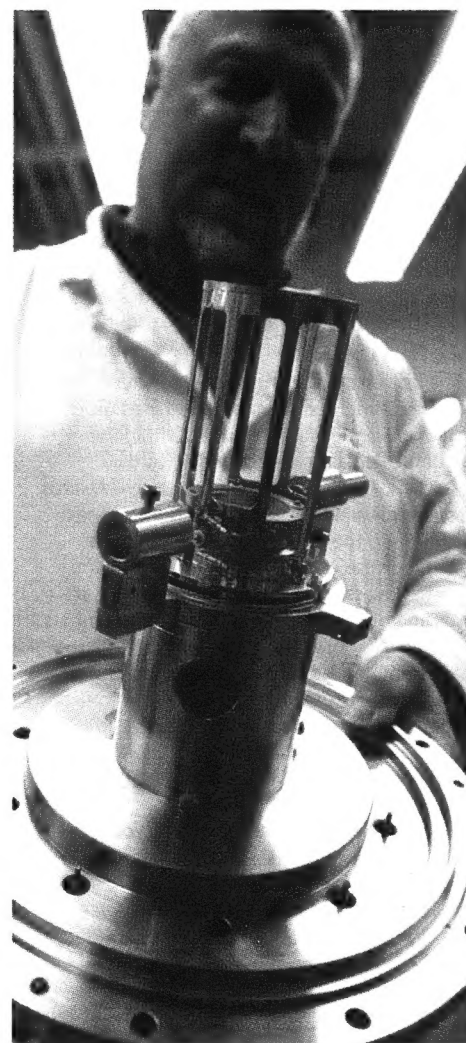
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Roman Lipiecki examines a laser ringdown mass spectrometer guiding ring.



Hubert Hofmann holding the first high pressure pulse electron ion source for a mass spectrometer.

# THE LITTLE SHOP THAT COULD

*Chemistry professors ask for all kinds of gadgets. Hubert Hofmann and his colleagues make those dreams come true.*

By Richard Cairney

When Hubert Hofmann arrived at the University of Alberta in 1963 he had a feeling something important was going on. As a machinist in the Department of Chemistry's Design and Manufacturing Machine Shop, Hofmann worked with some of the most important scientists of the day, including Dr. Harry Gunning and Dr. Ray Lemieux.

During the late 1950s Gunning convinced university administration and the premier of the province that a strong chemistry department was in the best interests of Alberta science and education. Within a decade he built a department that achieved international recognition as a rapidly evolving centre of excellence in the chemical sciences.

Lemieux is perhaps the most influential and well respected carbohydrate chemist in the world over the last 50 years. His work brought the field of carbohydrate chemistry into the mainstream of organic chemistry and his discoveries have provided invaluable groundwork for medical breakthroughs in the 21st century.

"They were some of my first customers," says Hofmann, whose shop designs and manufactures one-of-a-kind devices chemists require in the lab – many of them unavailable anywhere in the world.

No doubt, devices designed and built in Hofmann's shop contributed to those discoveries.

Today, Hofmann supervises a staff of five machinists, an electrical techni-

cian and a metal fabricator who work in a sprawling shop in the basement of the Gunning-Lemieux Chemistry Building. Work produced in the shop has helped the department and its researchers earn a reputation for cutting-edge research. One project constructed in the shop will help bend X-rays at the Canadian Light Source Synchrotron, based in Saskatoon.

Devices manufactured in the shop are sent around the world, to such prestigious locales as MIT.

As graduate students take their leave and researchers move elsewhere, they still call on the U of A shop to design and build equipment they need.

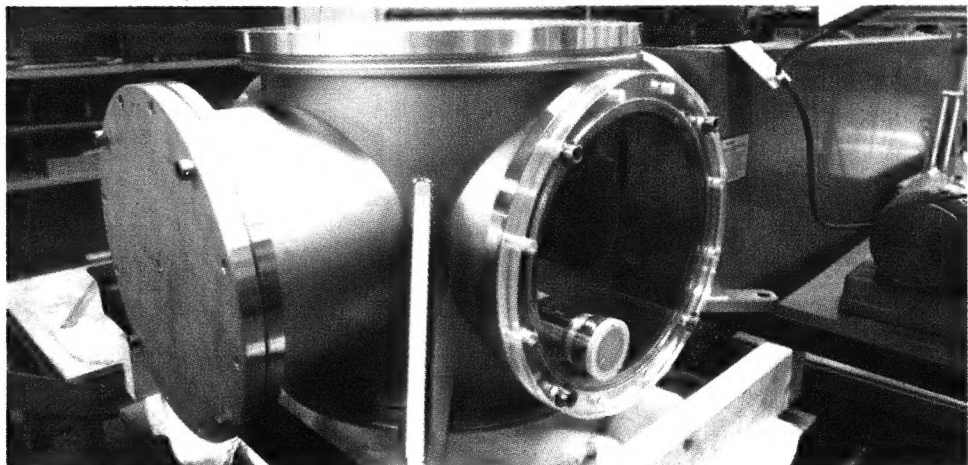
"These day, when you're shipping something to the U.S., the paper work is

incredible," said Hofmann.

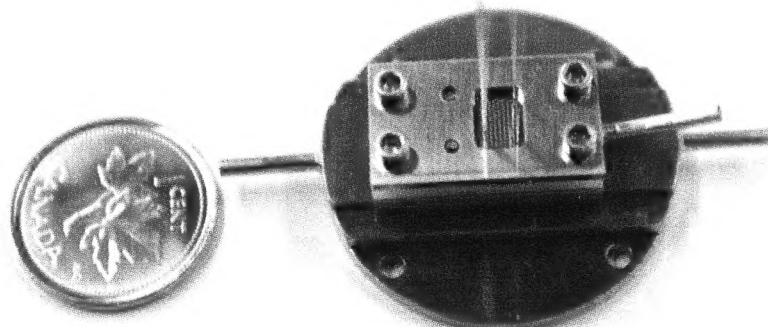
Hofmann says he and his colleagues in the shop excel at their jobs because they feel valued. "Here in research, you're allowed to contribute. You're allowed to be inventive, you're allowed to be creative, and the result is much greater job satisfaction. When someone comes to us with a real problem, we literally thrive on it."

And there is, as a result, a shared sense of accomplishment, a feeling that their efforts made a difference in teaching and research.

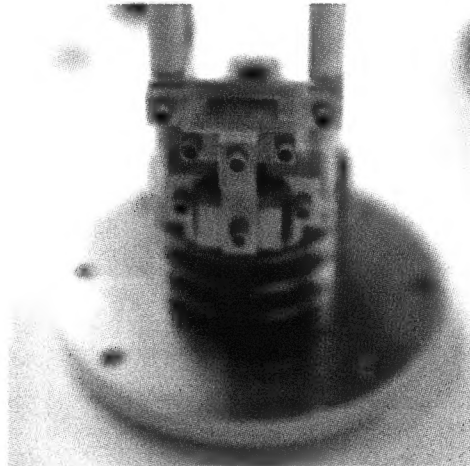
"Working with people like Jed Harrison and Wolfgang Jaeger, a few of the younger researchers especially, you have a feeling of euphoria when things work out. That is always there." ■



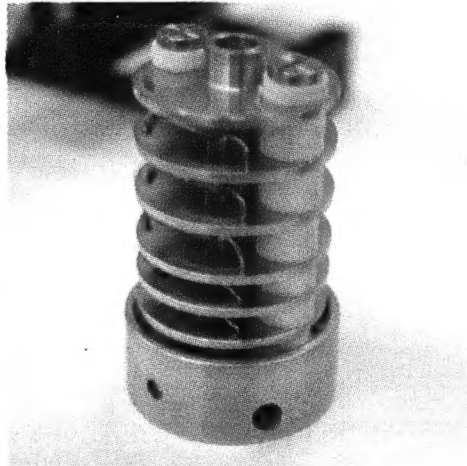
The main chamber of a mass spectrometer.



A sheath flow cuvette is used in simulation for DNA samples.



Ion acceleration ladders.



folio **back**  
page

Photos: Chul-Ahn Jeong